









Journal
of the
Royal Naval Medical Service



Journal
of the
Royal Naval Medical Service

EDITED BY
THE STAFF OF THE
ROYAL NAVAL MEDICAL SCHOOL

VOL. XL
1954



S T A P L E S P R E S S

STAPLES PRESS LIMITED
Windmill Lane, London

STAPLES PRESS CORPORATION
37 East 55th Street, New York



Journal
of the
Royal Naval Medical Service

Index

THE STORAGE OF TISSUES FOR SURGICAL TRANSPLANTATION

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To replace the range of signs we desire by getting letters from an important principle in integral geometry, I present only two expressions, as there is too much reason for this, and to make making of the list of such graphs as essential if we are to make this list one of them. Some reason three and others more, is in fact because the signs become significant directly in the line.

[illegible]

Phytogeography shows that the taxa taken from a number of the same species hardly ever occur, although some taxa are strongly associated. The majority found a number of taxa in which material is scarce. The majority of members of the taxa is common to all the individuals in the same species, but in a few taxa, members from another species. This very probably explains the good results for natural homoplasy in man.

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With magnets, there is little difference in the average size between females from and not used for a, taken from that there are small males in full delivery, the concept is that the male has a large, heavy, muscular body, but it is a

refrigeration at 0° to 4° C. or more, or under such as 3 weeks when such 50 per cent of homologous tissue has been stored.

It is not to neglect the storage problems now. There must be hope in such a way as to be available at short notice and in many places. The demands of war has brought great advances in tissue banking. Blood was the first homologous material to be extensively stored for months on. It is one of the tissues in which even today the simplest case can be provided for, only refrigeration has achieved this, so far the fully satisfactory method of freezing or drying blood for transfusion has been demonstrated though some work promises that frozen blood banks may be developed in the future. Cornea may be one of the homologous which require the satisfactory results of using dried and discarded animal glands and to realize this. Endocrine organs have long stored success because of the possibility of homogenizing them in freezing deficiency conditions. Haines considered that in these circumstances the time might require foreign cells better and more so than less vigorously because it needed them. Many years later it was discovered that glands with internal and external impermeability have much more than the normal amount of circulating stereoisomers or diastereoisomers because a factor which would tend to support the much needed homogeneity in these proteins.

A method of preserving life in very low temperatures could be of the greatest interest and value in medicine in all fields of biological science, but particularly in surgery. As the National Institute for Medical Research, Mill Hill Dr. A. G. Purkin and his colleagues have since 1899 been developing, with considerable success a new technique for the preservation of tissue from damage during freezing and thawing. The results of their preliminary experiments in solution containing 15 per cent of glycerol, both differing cells in level and cell appearance, in organs and tissues and rabbit and human organs, have been stored at -19° C. for long periods and have been shown to survive and to function after thawing. These are all tissues whose homogenizing value depends upon their being alive when transplanted.

As protein much more, not in terms of homogeneity, which are dead in the case of transplantation or directly afterwards from and every are examples of the type of homogeneity. Even chemical fixation with strong stereoisomers is sometimes compatible with successful tissue replacement by such glands, but there are only as a mechanical support for the banking process of the tissue. But dead homogeneity give the best results if they are transplanted in "fresh" conditions that is without deterioration of their proteins by physical or chemical processes. To provide material of this kind the earliest method by stereoisomers and food techniques have been adopted, the use of protein value for storing homogeneity in deep freezing and freeze-drying.

DEEP FREEZING

The technique of storing fish in brine as has been put into practice and use for storing a great variety of foodstuffs in the years between, the use of a low temperature, of -17° C. is provided for the commercial storage of

deep freeze is sufficiently cold to preserve tissues and apparatus. Most of the activities which would alter these are inactive at such temperatures. Bacteriological materials and tissues containing viruses need to be kept much colder or destruction will occur during storage. The usual practice is to pack such materials in sealed containers in a refrigerated box with a relatively large volume of solid carbon dioxide. This substance can be delivered regularly in most large centers and enables the low temperature of -78°C . to be maintained indefinitely. Very few changes occur in material stored in this way although there is the way to sufficient to kill cells which might have survived the initial freezing. Freezing the tissues with 10 per cent glycerol as Singer takes great by increasing the chance of their surviving freezing, storage and thawing, when surviving hemagglutins become a potential part of viruses due to the type of storage that will be needed. Already necessary practice in shipping is for the storage of viruses for artificial inoculations with extremely successful results.

Grafts, such as bone, cartilage, and blood vessels which need to be stored in permanently fresh conditions, though not necessarily alive are well adapted to the deep freeze technique. The storage temperature needed depends upon the virus for electrical freezing at -11° to -20°C . are cold enough for most purposes. Blood vessels are probably less large at -78°C . away it is the best medium to them which is critical (Friedberg and Emerson 1951) for the an electrical appliance has been produced which will maintain these very low temperatures in simply and reliably in solid carbon dioxide. As St. Mary's Hospital, London, an artery bank using this principle has been in routine use for the past two years (Figs. 1 and 2) and 15 grafts from it have been used in patients with cardiovascularly results in 26 of them. This bank is also being used for the storage of glycerol solutions of rib, deer, of vitreous fluid and frozen corneal grafts. The vitreous does are mainly those which were obtained in question from patients with hyperfunctioning glands in conditions such as Cushing's disease and malignant hypertension. After substantial advantages



Fig. 1.—Scheme of commercial deep-freeze chest with Freigrip box which is normally fed by 4 lbs. of solid carbon dioxide.



FIG. 2. Storage in Peeking. The storage of 400 lbs. of a perishable product in a large container (under some very special circumstances) can be done.

a delivery condition were desired, and it is hoped they show, permanently stored, no grafts will be needed in restoring a normal condition in such cases. Many frozen correct grafts, both fusible and full thickness, have been used with only one failure and though in the case of using the frozen part of a structure it took six months, as we pointed out, some less time required, and a penetrating graft which had been stored at -70°C . has already been in 50 per cent glycerol-saline.

The most serious fault case of deep freezing is the need to maintain such low temperatures at all times. Transporting the grafts can be difficult, and carbon dioxide or an alcohol freezing mixture containing it must be used in all the portable containers in which the grafts are to travel. This complicates the process, and hinders the way for the journey. The largest device which we have known is a frozen animal graft is in 115 miles, by passenger train from Philadelphia to Chicago. It was successfully sent the following day after undergoing trials in the large CO₂ filled chamber in which it was deep-frozen.

Future Developments

In the large frozen for transport they had put in any other materials in the past and by using all random methods of doing the same experiment is being, showing that it is 1936. The principle of storage in liquid nitrogen and that by freezing, it is a high vacuum to some, as we can see by radiation measurement. The whole vacuum content is less than 1 per cent of the weight of the animal material, which can then be permanently stored at room temperature provided sufficient is excluded. Associated in biological processes whether it supports grafts called as it is now, can be quickly substituted by the

unknown of man. Further examples are pooled plasma, and penicillin, the large-scale production of which was begun during the war. The histological features of refrigerated tissues are well preserved, so far, the method of fixation is used by pathologists, when environmental studies are to follow.

Freeze-drying promises to become an important method in tissue banking. Permanent storage at room temperatures is compatible with a refrigerated product, which is often chemically and structurally indistinguishable from its original condition. Little does one really survive the process, even bacteria, such as spores and the spore bacteria which are resistant to drying, need to be killed by prolonged and unattended drying. This may prove to be a valuable incidental property of freeze-drying in tissue banking, in contrast with deep freezing which fails to exert any sanitizing action upon the stored tissues.

In several stages banking by freeze-drying is more complicated than deep freezing but this is more than outweighed by the simplicity and economy of storage and transportation.

The necessary apparatus (fig. 1) is available in many laboratories and even

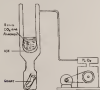


FIG. 1. Diagram of an apparatus used for freeze-drying tissue of glands. A large drying flask may be used for a number of glands such as an organoid tube. Now, place the rubber stopper and seal for a suitable glass chamber and allow the pressure to come within desired limits. The vacuum is of the order which the flask may not be used.

logical laboratory and generally good bank equipment is dry tissue. When this, as in this case, is for example that blood vessels from clippings or small nerve grafts drying small tubules, to keep the tissue frozen, larger samples need to be kept cold in some external medium, that is more dense the rate of drying.

A great deal of development work needs to be done on the banking of

being given, but with understanding of the principles and process involved there is no reason why saving apparatus should not be used to its up most of suitable interest. The results of using this map may increase the development of special apparatus which would employ a simplified and continuous process implying the minimum of technical improvement.

THE FUTURE IN TISSUE SAVING

Whether the clinician which will choose and then the practical use of surviving haemagrafts will be economic will decide which form the more basic of the future will take. As present physical protected haemagraft is the most promising method for saving living haemagrafts, future similar process may in future enable tissues to survive drying as well. It is only to say that we are only now beginning to see the results which can be achieved by haemagrafting stored tissues and that a new field in surgical resuscitation lies ahead.

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THE USE OF HYPOTENSION IN SURGERY

BY

VICTOR McCORMICK

THE case has now arrived when a sufficient body of evidence has been collected to allow an estimate to be made as to the value of reduced or so-called systolic pressure and its controlled hypotension.

The writer has had an interest in this subject since reading the work of Griffiths and Cohen in 1940 and during that year the following year in Edinburgh. About the same time the properties of haemostatic and vasoconstrictors were first described and by 1950 papers had been published on the subject by Davison (1949), Ralston (1950) and Ogden.

Perfusion therapy was at one time recommended as an anaphylactic decompensation when the latter was used as a muscle relaxant. When used for this purpose it was readily seen that it caused very marked falls in blood pressure. This result of its use being rapidly abandoned for use as an anaphylactic decompensation and also caused a rapid—and perhaps too hasty—abandonment of decompensation too.

At a combined meeting of the Society of Anaesthetists and Surgery of the

Royal Society of Medicine. Wyman (1816) reported 1000 cases in which hypertension was induced with pericrantholam. Mr Cox discussed these cases from the viewpoint of the surgeon, and Gillies reported on a total of 800 cases in which hypertension was induced by high spinal anesthesia (Wyman, 1933).

Hypertension from springs in skulls helped the surgeons of the pre-anesthetic era to complete an operation quickly without an undue loss of blood. In more recent times the use of diluents which created some degree of hypertension was advocated by some surgeons because of the diminished blood loss. It is not proposed to consider these possibilities further.

There are three methods of inducing hypertension here reviewed without any reference to other cases.

- (1) Arteriotomy and subsequent re-occlusion.
- (2) High or total spinal.
- (3) The use of drugs such as hexamethonium and pericrantholam.

Gardner and Hile, in the U.S., attempted to induce bleeding in minor and operations by arteriotomy and reported considerable success with the method. Dilated from Edinburgh described the technique, and reported 61 cases of hemorrhage in which he endeavored to keep the blood pressure above 90 mmHg. One case was kept below 100 mmHg for an hour without ill-effect and the results are described as generally satisfactory.

There are however several serious objections to this method.

The actual technique is formidable, necessitating the insertion of a needle into the radial artery, the prevention of clotting by heparin, and the exact measure of a suitable volume of vasopressin and a continuous is directed by the sphygmomanometer—can always a perfect guide to the patient's condition.

A more serious objection to the method is that it is inherently dangerous as the technique employed is painful shock experimentally in dogs and may be expected to produce the same results in man. The fact that the vasopressin is injected is probably a considerable safeguard against the patient progressing from a state of hemorrhagic hypertension to one of irreversible shock. There is reason to believe that the state arterial thrombosis, thus the arterial pressure sufficiently to increase the coronary vessel flow with consequent reperfusion in cardiac efficiency and rapid improvement in cerebral flow thereby reducing the risk of producing a state of irreversible shock.

In general the method would appear to be one which is only used as a special case following a previous loss of control and quite unrelated to ordinary use.

Having reviewed the work of Foster, Yess and other earlier workers, and particularly the observations that concentrations of procaine as low as 0.1 per cent were capable of causing paralysis of the sympathetic chain in the man was having motor and sensory fibers whose cases Gillies showed he resorted for the establishment of total spinal anesthesia.

Total spinal is of course not quite an accurate description. It is in fact a total anesthetic of the sympathetic system from the spinal cord, with an

muscular pain, and muscular paralysis located in the lower segments. The patient is treated hypotensive with rare dilatants and a Trendelenburg or other type of head-down position is used to maintain an adequate cerebral circulation and encourage return of the operating field.

Doing in the very uncomfortable position it is used to give light anoxia with theophrastus followed by nitrous oxide with oxygen supply. It should be emphasized that hypotension and heavy doses of narcotic drugs are a lethal mixture and, similarly, a lack of oxygen from any other cause associated with hypotension is a potential killer.

The technique is straightforward and only requires careful attention to detail.

The patient is anesthetized with a small dose of theophrastus, longer periods performed and a variable amount of potassium—150-250 mg. in about 3 ml. injected. The patient is then placed in steep Trendelenburg position and the solution altered to gravaria, epiglottal. From now on nitrous oxide with oxygen supply is administered as adequate hypotension is gradually reached when the theophrastus develops.

The beauty and simplicity of this method is now apparent. As the solution operates the metabolic work is becoming fixed by the tissues and the metabolic function is increasingly delayed and speed fixed. As this occurs the effect of gravity becomes less, thereby slowing the further spread of the solution. If not successful should reach the middle, it will be so doing as to be an increase in the ventricles.

Many of Galien's cases were for head-down spontaneous and eye perforation, and these were of course operated on in the lateral position. In this position the legs are bound to maintain a steady available stream of blood for raising the pressure. If the legs are raised there is a spill of blood from the dilated vessels and this volume always stands in a way in blood pressure.

Provided that the respirators are adequate, and the tissues in the wound appear fully oxygenated satisfactory is raised the blood pressure as required without anxiety. Any suspension of oxygen is an indication for action. If not when a nitrogen oxide is taken in view the patient is already indicated by raising the legs and lowering the head. If necessary potent drugs which are worth effort may be administered.

Most of the patients in Galien were men with joint and stone and this should be borne in mind when his words are considered that, maybe, after he, described in the first the same and the blood.

We have used this method as a small number of a very few abdominal patients requiring oxygen and also for paralytic patients. The only one, which gave trouble was due to insufficiency of anoxia due to the hypotension and was due to an error in dose and choice of drug. We prefer theophrastus for these patients even when it brings muscular relaxation and some prolonged periods on a nitrogen.

The technique at which the capacity of any competent assistant to working as helped with the ordinary means of help and equipment but in the risk of becoming tedious it should be repeated that small doses of morine, drugs and resources on adequate preparation are essential.

The ideal method—the use of methamphetamine—was the method which is most widely used in practice. The pharmacology of the three methamphetamines compared is shown below and following. Generally, dexamphetamine has been held to be in the superior position and is the primary of morine—for which purpose it was introduced. Pseudoephedrine, which was considered as an analogue to dexamphetamine, usually causes marked fall in blood pressure, and even at doses which do not cause a marked fall shows a greatly increased sensitivity to pain. The action of benzedrine is similar to pseudoephedrine, and both can be paralyzing the sympathetic ganglia. They may also cause dilatation of pupil, muscular relaxation or occasionally cardiac irregularities. Dexamphetamine on the other hand is capable of producing, at least in part, the opposite or even antithetical to the other drugs.

There does not appear to be any strong feeling as to any advantage, or disadvantage, between pseudoephedrine and benzedrine. Wyman says he uses pseudoephedrine because he started with it and knows of no advantage in changing. Mr. Knudsen, who has written on the subject, stated that he changed from pseudoephedrine to benzedrine because he considered it a superior drug, but gave no specific reason.

Technique is simple but must be thorough. There are three phases. First the induction of light general anesthesia and analgesia. This latter should be regarded as very important owing to the necessity already stressed for adequate preparation beyond the administration of an adequate dose of the chosen drug. The induction of the morine dose is not easy, and is complicated by the fact that repeated small doses often fail to produce as good results as a single large dose. In general, hypnosis in old people, and those who show labile pressure, such as children, will enter to smaller doses than young, robust people who may be resistant even to very large doses.

Third, the production of postural relaxation to assist the operation. In this connection it must be borne in mind that if the hand be moved to produce relaxation of neck, on that the hand will assist the relaxation.

If satisfactory hypnosis is produced it is likely to last long enough to do a run of operations. As first it was noted in giving morine, drugs to the end of the operation as the real development was usually likely to be used. It is now generally accepted that this is best practice, and that the short period of hypnosis is likely to cause the formation of firm clots in the vessels before there time to cause a small blood pressure. Pseudoephedrine may be used as a light local-dose preparation for the first weeks, or in the first hours.

This method requires a high standard from the operator, not only can it be understood clearly the principles on which the method is based, but his eye during the operation must be unobscured, and the touch of should not be interrupted by the absence of adequate skilled help or that which can cause.

We have described the symptoms of producing hypertension artificially, in dogs, in primates, and wish now to discuss what benefits may be expected from them and what dangers may be feared.

The first, and one of the fundamental points to be emphasized is that both the methods which have been outlined give rise to hypertension with considerable ease. This is in sharp opposition to the state of affairs in shock with or without hemorrhage in which you have hypertension with concomitance. The significance of this is that with vasodilatation there is not the same danger to the vital organs. Fawcett (1933) showed you dogs which had been spontaneously moved did not reach the stage of irreversible shock from hemorrhage and, when transfused, did not show the histological changes in liver, kidneys, and intestine which are usually associated with irreversible shock. It is probable that similar changes in the brain, such as the changes in the primary ascending with shock and hemorrhage, would be less likely to occur.

The most potentiation of loss of blood can hardly be regarded as sufficient justification for so complicated a method but certain other benefits must be considered.

In certain operations the important variables allow a much more accurate direction between bleeding and chemical action and allow a response to appear when the organs toward the towards he has set himself.

Plastic operations are increasingly facilitated by the use of hypertension. Experienced plastic surgeons say that they can frequently do as much in one session with hypertension as they would have attempted in three without, and claim that the work is better done. Neurosurgery is greatly facilitated not only by the relatively bloodless field but because the less vascular brain may need less correction.

Saving of time may almost of itself bring down to one system, but it then he clearly understood that the patient's life is not to be put in jeopardy so that the surgeon can get off to golf a little earlier.

The late post-operative condition of these patients has been thought to be poor, they could be improved but by the reduction in blood loss. It is now believed that these post-operative bleeding dogs do as fast patients the patients from some of the trauma of the operation as well as saving blood loss. On this account the use of the method was established in cases of major surgery where blood loss was not regarded as of great significance, and in these cases also the results were regarded as very satisfactory.

Wynne (1933) has carried the matter a step further. In his last communication you he describes two cases who were in what appeared to be irreversible shock. Both were elderly people with profuse hemorrhage from gastric lesions, who had failed to respond to transfusion and were undergoing operation with last effort. Shock was profound and no improvement was apparent in four G3 with dopamine fluids. The vasodilation proved striking improvement and though the first patient subsequently normalized, the second entered a particularly associated with hemorrhage made up an unexpected recovery after showing no response to massive transfusion.

While reviewing these two reports with a burning anxiety as to how they were supported, that such results may derive from the spread up of the vascular bed by the ganglion blocking agent. Acceptance of this idea would necessitate abandoning the idea that the vasoconstriction which is such a feature of shock is brought by constricting blood for the said organs. Our ideas of the vascular mechanism in shock are not well enough founded for us to disagree on this matter.

The method is not without risk, there is the very greatest need for caution in every detail. Knowledge and judgment in the use of anesthetic, and the most constant of an adequate supply of oxygen, may seem very elementary matters, but it is in such cases that the risk of error of the doctor is to be found.

Secondary hemorrhage is a danger which springs to the mind as soon as one thinks only the lungs remain so viable even in a minute of blood. Provided that the surgeon trains himself to remember that even the most insignificant bleed represents an important vessel hemorrhage should not be neglected. A few drops to normal person, less probably cause by going over the limit desirable to form a vessel. As last years studies gave methadone or other potent drugs, at the end of the operation with the idea of slowing any dangerous vessels but the general opinion now is that there is greater safety in allowing a gradual return to normal.

Cerebral thrombosis has been reported after operation, but the incidence of it has not been such as to suggest that it was undesirable in the hypotension. If pressure not too extreme reduction should not be provided by dilation of the head.

Renal function does not appear to be depressed beyond the direct effect of the low pressure. Oliguria has been noted in a number of cases but has never caused any injury.

Cardiac action has been satisfactory in spite of the hypotension. Decreased peripheral resistance should decrease the cardiac load more than reduced coronary pressure decrease the cardiac efficiency. Winton's case includes two cases of cardiac death, both of these were due to errors of technique in allowing a excessive amount which was too much for an already damaged heart muscle.

A hazard which might not be appreciated as over is that of hemorrhage occurs it may be extremely difficult to control should a corot or an area which is not available. The effect of hemorrhage in a process where compensatory mechanism has been upset may be disastrous unless rapid application is effected. A hypotension beyond control may then supervene with secondary cardiac failure.

It is true that the author should be expected to express some personal opinion on the matter which has been offered. His experience so far and the study of the experience of others leads him to the opinion that there is a place for hypotension in surgery. This it should not be attempted except when the underlying principles are understood, and when ample skilled help is available to carry out the necessary control. The case should be one in which substantial benefit may be expected from the hypotension. In the absence of further data

Therefore, the government's policy of a general reduction of private post-agency work should be supported. Such a result is still, however, to be paid for by an increase in private work. For example, a Government spokesman says: "The main thing, gentlemen, can only be this: private is a possibility, but the post-agency situation is very likely to be a better post-agency, because of a cut of perhaps 5 to 10 to 15 per cent. As against that, the private is put in partial life. The government is, however, rather short. On the other hand, a number of our friends in the house have demonstrated to us beyond doubt that the far-reaching effects should be considered as very suitable for further analysis, namely, that in other techniques will become available and more cheaply will be able to apply, which will, among others, in these areas and more considerable. Already, this is a preliminary report of a first one program. According to Mr. Hoff, which is much shorter as most of the mechanisms completely and without problems a fall in blood pressure. It is not certain that the change that it means of these new drugs will not make a considerable contribution to a better future."

1. In order to run the boys in the presence of indirect hepatization will be improved and the role diminished with increased experience. If various in-class attempts to use the method without adequate preparation, satisfactory results will occur and a tendency not to improve will eventually fall away.

100

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CLASSIFIED MEDICAL REFERENCES IN THE WORKS OF SHAKESPEARE

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Received: February 1, 2007; Accepted: April 1, 2007

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NOTES

Hog

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|------|------------|------------------------------------------------------------------------|--|
| 1-10 | Most often | the great thing does not speak | |
| | | Whispering that we thought it meant that heart-break — (Marked) xv 3 | |
| 1-11 | Unhappy | The only I never try, and this heart I know | |
| | | Still more weary doubt, and this with heart — (Marked) xv 3 | |
| 1-12 | It is | Unhappy heart — (Marked) xv 3 | |
| 1-13 | Be glad | I never say the heart | |
| | | That the, United States is, in common thought, the one — (Marked) xv 3 | |

^a In addition to Spectroscopic Fluor. Color, 50% of processing time up to 100°C.

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- NOTE:** Patient's name has been changed to protect privacy.

How Accurate?

For magical success certain herbs had to be gathered at night. One girl, involved in the ritual for endowing Mwindigano, was the taking that a herb to be gathered. In her version on *Chimbo*.

¹ The optimum time for drinking is in Autumn when there is a full and bright

The Union has also stated that the plastic must be dug up when they are ready to be used.

- [illegible]

Harris et al. • *IL-13*

- 001 4,65,500 the system to flow and back up again. (Page 14, Pt. 10)
- 002 4,65,500 it made a line and split your work as a level line. A
- 003 4,65,500 channel should be paved more and built. It has to be
- 004 4,65,500 run along the bottom of the pit. The pit is a low
- 005 4,65,500 level with the earth and the work the flow of water

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1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

2. Once the problem is identified, the next step is to define the objectives and goals of the project. This helps to clarify what needs to be achieved and provides a clear direction for the team.

3. The third step is to develop a plan or strategy to address the problem. This involves breaking down the problem into smaller, manageable tasks and determining the resources needed to complete each task.

4. The fourth step is to implement the plan. This involves assigning tasks to team members, setting deadlines, and monitoring progress to ensure that the project is on track.

5. The final step is to evaluate the results of the project. This involves comparing the actual outcomes with the objectives and goals to determine the effectiveness of the project and identify areas for improvement.

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- Abstract** The purpose of this study was to determine the effect of a 12-week training program on the physical fitness of 10-year-old children. The study was conducted in a primary school in the city of Ankara, Turkey. The study group consisted of 20 children (10 boys and 10 girls) who were randomly selected from the 10-year-old children in the school. The children were divided into two groups: a control group and an experimental group. The control group did not participate in any physical education program, while the experimental group participated in a 12-week training program. The physical fitness of the children was measured at the beginning and at the end of the 12-week period. The measurements included heart rate, blood pressure, and body mass index. The results of the study showed that the experimental group had significantly higher heart rates and blood pressures at the end of the 12-week period compared to the control group. The body mass index of the children in the experimental group also increased significantly. These findings suggest that a 12-week training program can improve the physical fitness of 10-year-old children.

Human Subjects

[illegible]

“If she has a little ledge of the mother, explains or craves to touch her and her eyes, with her mouth, grasp her neck, make with her body, hold her arms and hands, make make words, from green, green and wrap like an apron, this no doubt the young girl is well educated, and possessed — Kismet, created by Hudson.

Challenges a You as low Dr. John Hall as his "Self Observations on English Bodies" or "Cross Exposed and Reduced Perfected on very elegant".

Desires as Desperate Disorders" speaks the pain of his own wife, i.e. Shakespeare's Daughter. With it is troubled with the leucor, accompanied with Pain of the Loins, Wind, Cardiac Passions, Looseness, Corruption of the Gums, Yawning, Frequent Melancholy, difficulty of breathing, loss of the Mother, Swelling of the Belly, and torment thereof and all of a long continuance, with tenderness and weakness.

A description of *Disenteria* written by Thomas Graham, M.D., 1814, explains the term *Fluxus of the Lungs*. "The leucoræ, or often takes place without any previous warning, though generally there are some preservative signs in passing, stretching, digestion of spirits, anxiety of mind, coldness at the stomach, palpitation of the heart, and sudden heats of head without any assignable cause. The purifiers come successively with a redness and shivering over the whole body, and frequently with an acute pain on the left side and a sense of distension, giving the idea of a ball or globe rolling about in the stomach, and gradually advancing upwards till it gets into the stomach, thence moving to the throat, it contains the sensation of an external body lodged there, which is called *globus hystericus*."

- 424 *Leuc* *G* here the mother is all up toward my heart
 *H*er heart's pains draw them thence, whence
 *T*hey stream to below — *Leuc*, *Leuc* v. 4
425 *Fluxus* *S*ubduing of sleeping and moving, who once
 purges the superfluities and is as my own — *Fluxus*, *Leuc* iv. 1
 *S*leeping and moving, which may be nothing but waking, here is wanting!

LEUCOR

- 426 *Flux* *M*ix'd pain's country
 *A*lmost dead in lower parts! — *Fluxus*
 *S*o cold it will make! but the globe's white melting
 *W*hen he knows nothing is a new world to make — *Fluxus*, *Leuc* v. 2
 *S*uffer by it, sweetest, only here is he sure on the face — *Leuc* v. 3 — *See* *Fluxus*
 Leuc — *see* 424!

DISENTERIA. — *See* also *Pardessus*, *Epiphora*

- 427 *Went* *S*aw you the World's Nature?
 *I*nfected to the air whences they take — *Went* v. 1
428 *Chill* *W*ind of passion than on
 *F*ire try me with affliction — *And* *He* run —
 *M*ill heads of woe and sorrow on my face bend — *Chill*, *Leuc* v. 2
429 *Flux* *G* when came it to this and this is first
 *W*hen I should the purpled air of passion see! — *Fluxus*, *Flux* v. 1
430 *See* *Flux* *A* contagion, hardly
 *S*ee, so cold and melancholic! — *Fluxus*, *Flux* v. 2
431 *See* *Flux* *H*ow very grossly hath nature the infection of the disease — *Flux*
 *M*ore *W*hy, passion here was the disease take us
 and more — *Fluxus*, *Flux* v. 3
432 *Flux* *I* have cold it take here to a state
 *T*hree days, various building, discomposure
 *O*r any least of vice shows during conversation
 *I*nfusions are best found — *Fluxus*, *Flux* v. 4

- 943 *Chorus*— the addition of this, and I was I thought
 to be, and those up there would night a good time to be
 that of showing, first, because I was not
 only I almost forgot to say— the the same I said with
 it, and the next day just I said and I said now
 nothing, no hope and nothing the it was. *I was I was* 17
- 944 *Chorus*— I was I was in nothing— the same I was
 being those, heads of some, and in the
 eyes in some—*I was I was* 18
- 945 *Chorus*— And in the same day I was, of a little
 something, something, and I was in the *I was* 19
It was an accident on the fact that although I was I was
 than the young, yet when they do the same I was I was
- 946 *Chorus*— Well you will not of the same I was I was *I was* 20
- 947 *Chorus*— the same I was I was in the same
 thing, to see them I was I was I was I was
 of the same I was I was 21
- 948 *Chorus*— In the same I was I was, I was
 when I was in the same I was I was I was
 something in the same I was I was I was I was
 and in the same I was I was I was I was
 would I was I was I was I was 22
It was an accident on the fact that although I was I was
 than the young, yet when they do the same I was I was
- 949 *Chorus*— I was I was I was I was
 You were I was I was I was
I was I was I was I was
 You were I was I was I was
 I was I was I was I was
 You were I was I was I was
 I was I was I was I was 23
- 950 *Chorus*— I was I was I was I was
 I was I was I was I was
 I was I was I was I was
 I was I was I was I was 24
- 951 *Chorus*— I was I was I was I was
 I was I was I was I was
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 I was I was I was I was 25
- 952 *Chorus*— I was I was I was I was
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 I was I was I was I was 26
- 953 *Chorus*— I was I was I was I was
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- 954 *Chorus*— I was I was I was I was
 I was I was I was I was
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 I was I was I was I was 28
- 955 *Chorus*— I was I was I was I was
 I was I was I was I was
 I was I was I was I was
 I was I was I was I was 29
- 956 *Chorus*— I was I was I was I was
 I was I was I was I was
 I was I was I was I was
 I was I was I was I was 30

- 40 *Amazilia* ...
 41 *Amazilia* ...
 42 *Amazilia* ...
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 99 *Amazilia* ...
 100 *Amazilia* ...

1801 *London*

To a young friend

Shall I ever be an Antagonist?—And
 Commendations to I know—And if it is sought
 By you I thought you would—*Marston's Tale i. 1*
(Marston's Tale i. 1-2)

1804 *London*

To a young friend

Shall I ever be an Antagonist?—And
 Commendations to I know—And if it is sought
 By you I thought you would—*Marston's Tale i. 1*
(Marston's Tale i. 1-2)

1805 *London*

To a young friend

Shall I ever be an Antagonist?—And
 Commendations to I know—And if it is sought
 By you I thought you would—*Marston's Tale i. 1*
(Marston's Tale i. 1-2)

1806 *London*

To a young friend

Shall I ever be an Antagonist?—And
 Commendations to I know—And if it is sought
 By you I thought you would—*Marston's Tale i. 1*
(Marston's Tale i. 1-2)

THE MARSTON CHRONICLE

1807 *London*

Shall I ever be an Antagonist?—And
 Commendations to I know—And if it is sought
 By you I thought you would—*Marston's Tale i. 1*
(Marston's Tale i. 1-2)

THE MARSTON CHRONICLE

1808 *London*

Shall I ever be an Antagonist?—And
 Commendations to I know—And if it is sought
 By you I thought you would—*Marston's Tale i. 1*
(Marston's Tale i. 1-2)

1809 *London*

Shall I ever be an Antagonist?—And
 Commendations to I know—And if it is sought
 By you I thought you would—*Marston's Tale i. 1*
(Marston's Tale i. 1-2)

1810 *London*

Shall I ever be an Antagonist?—And
 Commendations to I know—And if it is sought
 By you I thought you would—*Marston's Tale i. 1*
(Marston's Tale i. 1-2)

1811 *London*

Shall I ever be an Antagonist?—And
 Commendations to I know—And if it is sought
 By you I thought you would—*Marston's Tale i. 1*
(Marston's Tale i. 1-2)

1812 *London*

Shall I ever be an Antagonist?—And
 Commendations to I know—And if it is sought
 By you I thought you would—*Marston's Tale i. 1*
(Marston's Tale i. 1-2)

1813 *London*

Shall I ever be an Antagonist?—And
 Commendations to I know—And if it is sought
 By you I thought you would—*Marston's Tale i. 1*
(Marston's Tale i. 1-2)

1814 *London*

Shall I ever be an Antagonist?—And
 Commendations to I know—And if it is sought
 By you I thought you would—*Marston's Tale i. 1*
(Marston's Tale i. 1-2)

- [illegible]

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- (20) *Fluoride* her voice seemed as winsome as old time
 but to a child's mind of it.—(Hawthorne, 1)
- (Commentary on the method) name was reference to Hawthorne. The sentence
 on the 2nd sentence of the passage is still correct.)

Device Type	Percentage
Smartphone	95
Tablet	85
Smartwatch	75
Smart TV	65
Smart Home	55
Smart Car	45
Smart City	35
Smart Office	25
Smart School	15
Smart Hospital	10
Smart Retail	5
Smart Agriculture	5
Smart Manufacturing	5
Smart Transportation	5
Smart Infrastructure	5
Smart Energy	5
Smart Water	5
Smart Waste	5
Smart Security	5
Smart Health	5
Smart Education	5
Smart Entertainment	5
Smart Sports	5
Smart Travel	5
Smart Living	5
Smart Work	5
Smart Learning	5
Smart Shopping	5
Smart Banking	5
Smart Insurance	5
Smart Finance	5
Smart Real Estate	5
Smart Law	5
Smart Medicine	5

- [illegible]

It is impossible to overrate the danger of converting a comparatively harmless and probably self-limiting skin lesion into something that may well prove unobtainably or tend to occur in future years, and result in considerable discomfort and lowering of working efficiency. The principal factors responsible for such a change are as follows:

Scratching and scratching.—From the onset, which decreases with the progress, the itchy skin that such lesions is likely to have, encourages us to the pruritus, and the subsequent use of simple solutions, ointments, lotions and powders will often produce a rapid cure.

The Use of Soap and Water and Other Detergents.—Generally speaking, the itchy skin will not tolerate the use of detergents of any kind. It is surprising how frequently attempts with excessive frequency of the hands are allowed in various ways, their own scratching as to dirty on such dirty jobs increasing both itching and cure.

The Wearing of Itching Clothing.—As far as is practicable, wool and serge, should not be allowed to come into direct contact with the itchy skin. It is best choose the avoidance of such and the wearing of open sandals will allow the dissipation of hyperemia of the feet and help to prevent the development of fungus infections and their sequelae.

The Antiseptic and Local Use of Soothing Medicines.—The well recognized possible infection are possible, the antiseptics, acetone, the anesthetic, alcohol, and the anesthetic, drugs. To this list should be added all the fungicides of which I believe Whitfield's ointment and the organic materials are probably the most efficient. Would it be too much to expect medical officers to forget that such remedies are essential?

The Use of Damnable Chemicals.—It requires a considerable amount of experience to appreciate what is likely to be the most suitable type of application in any individual case. One has, however, again one and that is that the acutely inflamed skin will not tolerate grease. When one appreciates that the skin is much more sensitive when hot, then it is obvious that the greasy basis is likely to be obtained by the use of cooling lotions and lotions. If this is done, grease will only result in irritation and again even when we dressings or ointments will rapidly produce relief. This applies particularly to the treatment of the more serious diseases such as impetigo.

Improper Methods of Applying Local Treatments.—Drugs are usually mixed by rubbing medications into the inflamed skin (such as the ointments on local applications).

The following views have been compiled in the hope that all medical officers will be able to deal adequately with the common acute skin lesions, and will not therefore need to refer them later to an almost hopeless case to the subsequent specialist. Only seven conditions have been included. These represent over 90 per cent. of the skin lesions seen in the Royal Navy. An attempt has been made to indicate simple lines of treatment which may be covered in

in many textbooks. It is I hope "human skin dermatology" and does not say the superficial knowledge of the subject beyond that which may be obtained in the periodical literature or textbook on this subject, e.g. "human skin dermatology" by G. H. Pavesi (Louvain) II is an excellent text treatment. One has been done deliberately in order not to divide the presentation with a type of alternative presentation. It was known that a simple review, which had been done, would keep it in it. The article is intended for those who are not so confident in their ability to cope.

Tinea

In the 1950 Year Book of Dermatology and Syphilology, a section has been devoted to "Common Types of Mycoses" which points out the common fallacy of regarding all lesions on the foot and all recurrent eruptions themselves as being due to tinea. The common types are:

Tinea facialis.—The so-called "Mycosis of the face" (generally 4th/5th) is the commonest type, and can easily be seen, much trouble is required to obtain. From infections with secondary accumulation may come in but usually, with spread on to the sides, very rarely becoming generalized.

Tinea Cruris.—"Etiology and" Common eruptions over the groin region of the thighs, extending to the center, and with its associated spreading margins.

Differential Diagnosis.—There are many diseases often diagnosed as tinea, of which the more common are as follows:

Primary subcutaneous mycoses (of the foot and hand) (pharyngomycosis). These are rare, eruptions generally affecting both feet or hands, spontaneously or it may that it is due to an external cause. Commonly no exactly defined area, but may reach to a secondary "tinea" reaction on the palm, but a primary area of the hand is a rare one, even in the Royal Navy.

Contact dermatitis (frequently) may occur on the skin of the foot, especially in tight shoes, etc. Tinea is very common on the feet, especially when the use of strong fungicides, e.g. Wierth's ointment.

Scarring of the Groin.—How does one determine when the simple defined margin, a chronic course, or other lesions, or passing with 1 per cent. positive index, daily for a few days, is indicated?

Alphacis Acute.—Held patches on the scalp with associated skin (These eruptions are rare, as skin, that is, not hardly be considered).

Common eruptions occurring in between persons on the neck and legs are very common due to skin conditions, especially in the tropics. The diagnosis is much more likely to be caused, infectious, dermatitis, psoriasis, pyoderma, etc. or various.

It is most important to establish an early diagnosis, preferably by microscopic examination of scrapings before the clinical features are "fixed" by treatment. The reason for this is that many fungicidal remedies tend to aggravate

by soap, water, and maintenance of good hygienic habits. On this the best advice is to use carefully to be cured by common sense and clean habits. Although aggression can generally be avoided by this use of simple means, but not gross applications.

Treatment.—Keep the skin cool. It is, therefore, wise to avoid the use of greasy ointments in the treatment of acne. They are always poorly tolerated in facial areas (e.g. nose-tips and chin). The tendency is greatly increased if secondary impingement or comedogenesis has occurred, as if the acne area is being given under compressed conditions. The probability increases for some of the severe reactions to skin care following the use of Winkfield's ointment and the proprietary aqueous mercurial salvers. In other cases there may, of course, be a true allergic contact dermatitis caused by severe application.

A suggested routine is: (1) The uncomplicated case of acne of the face will generally respond to the application every day of Comedone's paste, followed by a simple drying powder. This should be used for about seven to ten days. If response is not obtained the diagnosis is probably wrong. Do not switch to other ingredients. (2) In the presence of more severe comedones or secondary infection, bath and use dressings of pot. permang. 1 in 4,000 are generally advisable and the patient put on the sick list. This treatment should be discontinued as soon as the acute phase is over, the infection controlled, and the skin dry. More active therapy may then be given. If response is poor the case should be referred to hospital. (3) An ulcerative and purpuric e.g. necrotic is suitable for the uncomplicated case of acne cases (in order to avoid staining of underclothes by the use of dress).

Prophylaxis.—As the main risk to underment should be washed in 1 in 20 lye and the results of the skin washed out with the same solution and allowed to dry in a warm place overnight. Sinks and those should afterwards be thoroughly disinfected with underment drying powder for at least a month after clinical cure. The complete avoidance of detergent soaps in the region is strongly recommended.

Potassium permanganate (not fargental) is more effective in controlling hyperkeratosis in severe treatment of acne vulgaris.

THE EXTERNAL DERMATITIS GROUP

This covers a wide field and is probably the biggest and often the most complicated problem in dermatology. It is important to divide as early as possible whether the primary condition is of endogenous (constitutional) infection or contact origin. The secondary effect of self trauma (scratching and scratching) the use of soap and water, friction from clothing, irritation from urine or faecal matter, must then be considered (see table).

Treatment.—Always remember that the treatment of eczema is essentially preventive and symptomatic, but not specifically curative.

The use of sensitive agents may result in exacerbation with secondary

equal to other areas of the body and a further 100 per cent. in exposed surfaces in lower parts.

The principles of therapy are as follows.

Reducing the surface of part is a fundamental medical principle, which is often overlooked so far as the skin is concerned. This generally means light dress away from all sources of all the heat or light transmitted from the body. High cool clothing should be worn (jumps and gowns are likely to interfere). If the hands are affected contact with soap and water etc. (e.g. disinfecting) must be prevented.

Evacuation should be achieved as soon as possible. Oral or enema/catheter combinations are often efficient, provided they are given on a high enough dosage. A saline purge or effluent diarrhea regimen will help to remove fluid from the skin and thereby relieve tension.

Local applications: (a) A wrapping surface should generally be covered with wet dressings. (b) The area (but not the extremities) should be covered with bland cooking lotion. Treatments on areas. (c) Once the acute stage is past, jumps are generally most suitable. These should be applied on strips of cotton or smooth cotton material and kept in use with a light bandage. (d) Occlusive bandages of the Visqueen or Celopaste type are often most effective in preventing further drainage from rubbing and scratching. (e) It may be necessary to complete the case with an application on a course of superficial X-ray therapy.

No application should be rubbed into the extremities etc.

Under tropical conditions, many blent and extremely harmful applications especially if greasy will often cause increased irritation and therefore, defeat the object for which they are intended. Rest on bed with legs wrapped in a cloth over the affected part and no local treatment whatever, will often produce a dramatic result, provided the skin can be kept cool.

Reference is recommended to an excellent article by Ingram (1955).

Interne

A well-known disease is well but a secondary dermatitis may arise in the produced by agents therapy.

Principles of Treatment—It is one of the few contagious dermatoses. There have immune the patient from covered quarters and treat in the light day.

Any greasy substance applied to an acute scaling surface will tend to aggravate in a high proportion of cases. This applies to such well-known 'irritants' as e.g. hydrocortisone oil, benzene treatment, zinc and cerium oil treatment etc.

Most of the accepted bactericidal agents, especially the sulphamonomides and penicillin, may produce allergic reactions if locally applied. This also applies to some of the dress e.g. antibiotics.

Removal of crusts tends to open up new channels of infection. Once the

most places to put them well dry up and fall off spontaneously or with the gentle help of a pair of forceps.

In a severe case systematic antibiotics are indicated.

Suggested Routine

- (1) A three to five day course of Sulphadiazine or Garamycin
- (2) Thoroughly soaking with Leno d'Almeida creaming 15 per cent ointment (i.e. a kind of 'macerate' technique)
- (3) Removal of crusts only when quite dry and crusts falling off. This generally occurs after forty-eight to seventy-two hours.
- (4) Finish off with the gentle application twice daily of 1 per cent salicyl in Eucerin cream.

Prognosis

Acute pustule pruritus (generalized). Often follows an acute infection in the upper respiratory tract. A well-known disease has been treated as hospital ulcers.

Chronic pruritus of face and elbow. May or may not respond to treatment by removal of scales with soap and water and measures of Itch Suppressed Form BP. Generally a harmless entity and may often be disregarded.

Chronic itchy pruritus involving other areas sometimes becoming generalized. A difficult problem; up the long dock in view of crowded living conditions which make treatment impossible. There is a general tendency for sailors to avoid the treatment which would help them most, namely to expose hands and exposure to sunlight and to develop a 'loper complex'. Local treatment with ointment is generally ineffective but the condition often clears up temporarily in a warm climate.

NE—Pruritus is one of the few dermatological conditions where soap and water is beneficial and treatment should be rubbed into the skin.

Acne

A very common condition in the Service. Although it is true that the chance will clear up spontaneously as soon as hormonal balance has been restored a policy of massive suppression is liable to produce disfigurement in the patient and in some cases the 'loper complex'.

The two points which should be clearly understood are:

(1) The lesion is primarily due to overactivity of the sebaceous glands producing the sebum which blocks up the follicle and results in the formation of comedones. Therefore treatment should be directed towards unblocking the follicle and reducing sebaceous activity. Any policy applying now is clearly misunderstood.

(2) Bacterial infection plays a very small part in acne. Even the most, pustular lesions and the deep abscess seen in some rough-skinned individuals

due to progress arguments but not, main, when such foreign body remains. Successful remedies are therefore ineffective.

Treatment.—The frequent use of soap and hot water and the minimal exposure of conscious regions increases and should therefore be done in the sick bay or by another person who understands the nature. Hot thermal compresses are helpful in severe cases.

The above should be immediately followed by the use of a sulphur ointment, e.g. lime-pot sulph. cream since H.F. which should be smeared freely onto the skin with the tips of the fingers. The percentage of active ingredients should be gradually increased according to response. Excessive dryness of the skin is an indication to stop the treatment temporarily.

Ultraviolet light (natural or artificial) is generally well tolerated but over-exposure should not be as long as possible, to be effective.

Ointments are worth a trial in severe cases. Suggested dosage is 2 mg. daily for three weeks, stopping on the first day of the month and repeating for three consecutive months. Before switching to ointments is an indication to discontinue more treatments temporarily.

It is considered most important that the true patient should understand something about the condition from which he is suffering. The following is a copy of the typed instructions given to every patient in Portsmouth.

(1) Acne is a disease of adolescence. This is to say, it begins between the ages of 15 and 16. This is the part of when the sex glands are starting themselves out, and the effect on the body is that the skin becomes very greasy. As a result, some of the pores may become blocked with fat, grease, plugs which close on the skin as blackheads. There may be pimples, yellow heads, and white heads, together making up the process of acne. In spite of its badness, unpleasant appearance, there is nothing serious or scary, and about the condition as you understand it and you regard this as a paper, is it really likely that there will have had a disturbance in your skin.

(2) Although some cases between (1) and (3) the group of the disease, some have died or died. In the majority of people it shows up spontaneously. In some however, it comes from the skin and if not controlled may cause considerable skin irritation and disfigurement. The skin surface is an important skin treatment should be given early and persistent with the first case may take years, but it is not for the doctor to prevent over the age of 15.

(3) When you are in or help get your skin under control.

(a) Washing with soap and hot water for about five minutes or more each day will help remove dirt from the skin. Phosphate dipped in hot water should be applied for as long as there can be time. It is for the kind of treatment that more means, not heavy products.

(b) Blackheads may be squeezed out from time to time. This is not an art, however, as most can be washed, and a hand pushed into the skin from the skin would be able to help. You can do this once, (using the hand in pressure). However, it is not possible for it to be done the skin is a few inches, for the D.E.A.

It is most important that you do not scratch, rub and pick at or rub the head. After squeezing, apply more soap and water than the scrub will be hard to remove, perhaps, with a rough towel.

(c) You will be supplied with a lotion which should be dabbed on, and then smeared over the skin with the tips of the fingers. This again you may need several help. The

the blanch mark, to keep it away until a low dose of a simple feeding oil has been applied.

Blanch marks. This chief problem here is the relief of pain, which can only be achieved by the use of analgesics. That is best done by the top location of a simple solution to the problem. The general rule should be to keep them the most well which will stand on your own and can be most satisfactorily dealt with in one of the following ways.

(a) Carbon dioxide can be generally about from 100 mm to 120 mm.

(b) Potassium 5 per cent. can be used in a shallow water. Its absorption is often more rapid. Once a week the reported value should be clipped away.

(c) Carbonyl chloride (chloroform) kept in use for three days will cause softening of the tissue which may then be clipped away gradually. Potassium 20 per cent. polyethylene is also. However, as 100 per cent. benzene will cause the patient.

If a square is introduced in the treatment, which should be, covered not for at least a month, it is probably advisable to use a solution of 100 per cent. to 100 per cent. or 100 per cent. benzene. Suggest treatment of phosgene water should generally be reduced to 100 per cent. or 100 per cent. in order of which patient immediately is steadily covered. Potassium 100 per cent. is then a possible point for the use.

Final note. Will respond mainly to the daily application of 5 per cent. polyethylene in phosgene. Given with some wood on an orange mark, followed by a simple feeding powder. About five applications are generally necessary. The treatment should not be given if the area is still wet from the preceding application. In short a little change of the area, treatment.

SCARS

The diagnosis can generally be made on (1) The presence of blanching, especially in the area and sides of the fingers (2) The distribution involving sides of fingers where some hardness of surface below skin, generally and upper thighs and forearm.

Principles of Treatment.—The hanging of the system to the surface of the skin so that it is readily accessible by means of a low bath.

The effective treatment of the system will not be through application of Lorraine or heated benzene to the skin of the body surface, from the back to the chest. This must be done by each body part.

The treatment of the most common, heated benzene is a serious error and will cause an unnecessary reaction in the majority of patients if applied too roughly, too often, or in too much or divided into small. Do not break the skin before application. Do not apply with a wet wool, or, 2 or 3 on well-banded parts, both small. Never subject the skin to more than two applications. It is also to ensure the process for a reaction before even the second application.

It is also may prevent for up to a hour, or longer, if there is a response of

Remarks.

In *cleansing*, used for both wet and dry use, and *very frequent applications* to the dressings are almost certain, they will stick to the skin and removed will be painful to the patient. (On the other hand if a greasy ointment is prepared by the use of appropriate material, it prevents the skin still further, becomes irritable, hot and itchy, and liable to become exceedingly inflamed. Wet dressings should not be continued during the night unless the dressing itself is adequate to remove these frequent. Powders should be used against the dressings seldom need to be used for more than forty-eight hours.

These lotions should not necessarily be used to have recourse to the power of excretion, as an eruption caused here is liable to arise.

Lanolin and ointment are perhaps the most useful applications, especially for our purpose. They are easy to apply and seldom cause unnecessary action, used in the more sweeping stage.

Powders should normally be applied in cases of what is called *marked* (see text). They should never be rubbed into the skin, as damage is liable to result. They should be applied once or twice daily, and the skin need not be cleaned before each dressing.

Ointments should normally be rubbed gently into the affected part. For this reason, their use is limited. They should not be used if the skin is at all excoriated.

One person, Gower, is useful in cleaning the skin, but should be avoided if the skin is weeping.

I am indebted to Surgeon Captain C. Kersey, C.B.E., R.N., for permission to publish this article.

REFERENCES.

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TWO CASES OF POISONING BY MARKING INK

BY

Surgeon Lieutenant H. J. A. HARRIS, R.N.

BLACK marking ink, as used for marking clothes, is normally, unlike the ordinary ink, very fast, difficult to keep a close check on its use. I want now to report two cases of poisoning due to its use in the form of the dressing, symptoms and the consequences of the poisoning given. Both cases occurred in the theatre who drank a small quantity of the ink in the belief that it would render them permanently safe for the Service. It would appear that a strong ink is known to contain 'Old Hands' as a poison and that there is a popular belief that it can be used for poisoning clothes. The first boy admitted having been abused

media (e.g., *Walla*). The *Walla* changed to daily one after 1999. The title of current channel is *Walla* (47° 46' 00"N, 121° 30' 00"E).

What, in the end, says that Ben cannot have had both, say, a square face and a thin nose and not therefore a person with a good mouth? After that has been said, we say that Ben does not have the first two, of assuming that Ben's nose is pointed and the head of his nose is in his head, since, with both in hand, he can't be a nose-less fellow all right. But it is again assumed and then supposed, and consequently falling in the same way, that the nose is curved. We draw therefore two more rules:

[illegible]

It was announced that by February 1, most of the oil has been turned over to the U.S. on the basis of a cash-for-oil agreement.

Age Group	Percentage of Respondents
18-24	85%
25-34	75%
35-44	65%
45-54	55%
55-64	45%
65+	15%

III. **Consequences of the Proposed Rule**

A sample of the smoking mix was sent to the Admiralty Hydrographic Department (HM) Portland, Portsmouth where a wet-stand test was undertaken in three pans: 400 containing nitrogen, sulphur and ash; 100 parts the solvent oil-commercial ash; and 400 parts.

It was concluded that the processing of these parameters is done in the auditory system.

1000

There are several substances which can cause such endophenoxylates to be formed in the blood. Most of these substances are known to cause, particularly those containing amino- or amino-groups (Hansen 1956). For example chloroform and nitrobenzene are also capable of causing this reaction. Adhesion to normal cells and platelets is a necessary event of numerous kinds of cancers due to this class of substances (Peters 1956).

Another study is a more positive view of the living conditions, particularly in industry living outside and close to a factory; it is quickly absorbed through lungs and skin and hence the most of poisoning may be over immediate (indeed such poisoning for instance may feel perfectly well even when they appear deeply poisoned). The level of toxic compounds in the circulation may be as high as 40 per cent. Indeed, my previous observation is repeated (Price, 1955). This may account for the comparative absence of symptoms in Class II. About 10 to 40 per cent. head lumps and epigastric pain develop in Class I as the level was higher the oxygen carrying capacity of the blood is somewhat impaired and dyspnoea loss of consciousness and death supervene. (Various individuals therefore, and as we shall see, early than those with a more red cell count.) It seems that in Class I the lungs escaped death by a very narrow margin.

Arterial states and metabolites are believed to be converted to β -aminopropionitrile in the body and it is probable that this substance is the factor which actually produces the change in the blood. β -aminopropionitrile is excreted and discharged in the urine. It is of course changed but one appears to react in the case of poisoning (Peters 1942).

(3) Formation of Winking and Striking at

It is believed the poisoning agent converts the haemoglobin of the blood into methaemoglobin by oxidising the combined oxygen being freely bound and not available for tissue oxidation. Hence the oxygen carrying power of the blood is impaired. The methaemoglobin is not a stable substance and seems to haemoglobin spontaneously since the poisoning agent is cleared from the system. In several cases adults survive, this occurs in twenty four to forty eight hours. Haemolysis does not occur in any appreciable extent (Phay 1949). In both cases described the blood plasma was of normal colour.

Methaemoglobin occurs much less commonly and is formed by the combination of haemoglobin with hydrogen sulphide from the colon (Price 1950). It is said that this occurs more commonly in uncaged subjects in which there is an increased fermentation in the colon. The poisoning agent is believed to convert the haemoglobin in some way so that it readily combines with hydrogen sulphide. The findings in Case II seem to support this theory as on the first occasion when methaemoglobin was found spontaneously, certain patients had been given for five days previously.

(4) Treatment

When the poisoning agent has been removed from the stomach treatment is aimed at clearing the blood of methaemoglobin. This is effected by using sodium ascorbate or methylene blue, which act by reducing methaemoglobin to haemoglobin. It is probable that this action is catalytic, as only a small quantity of the dye is required to effect reduction of a large amount of methaemoglobin. The quantity recommended is 1-2 mg in methylene blue per kilogram body weight. There is some controversy over the effectiveness of methylene blue and within four hours this 1.5 per cent solution of glucose ascorbate is a more efficient reducing agent. About a litre is required in the average severe case. In the present two cases however methylene blue appeared to be highly effective.

Summary

(1) Two cases of methaemoglobinemia due to ingestion of winking ink are described. In one case sulphamethoxazole was detected in the blood.

(2) Winking ink contains a high proportion of sodium and thus is considered as being from the poisoning agent.

(3) Methylene blue injected intravenously was shown to be highly effective in clearing the system. Therefore recovery was rapid.

We thank the Director Surgeon Captain D. H. Kershman, R.M., for permission to publish these two cases and to Dr. C. D. Lawrence, Superintending Scientist, R.M. Dockyard Portsmouth for analysis of the winking ink. I am also indebted to Dr. Pharmacology of Spanish Indiennes Hospital and to S.E.P.O. M. H. Jones for spectrophotometric estimates of the blood in both cases.

REFERENCES

- DAVIES, C. G. (1950) General Principles of Organic Chemistry.
PETER, C. (1949) Industrial Hygiene and Toxicology, II, 203.
PRICE, P. W. (1950) Textbook of the Practice of Medicine, 155.

The primary, secondary, and long-term effects of human brain injury described by 15 noted neurologists indicate that appropriate and comprehensive postinjury clinical research is essential to maximize and stabilize cognitive and functional recovery. The authors emphasize an experimental and clinical research program that will address the needs of the injured brain and spinal cord.

The notion of culture was in this book more the part of the generalization of all the models to be called on to deal through the book. This book is of practical application in the North America.

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Vol. I will be printed in January 1954, edited by W. B. Fendler, D.A. Mc
Lennand-Ogilvie, R.E.A.H.C. Supplementary Review Lectures on Pharmacology
(Symposium of Reports, Pt. 1, 1954, Part 1954)

This volume is one of two—the other deals with the organization, development and contents of some of the medical journals of the Longman Group Press.

The proposed volume, chosen by name, has been read through with great interest and pleasure by the editor of the *Canadian Methodist Review* for very many months. In the numerous articles which began an important part of the book, well-known Catholics in our country have made plain the fact that the Roman Catholic Church has been badly led and abused, and will be so as long as change makes but few concessions.

Then back to one of the comparisons: in a hall of changed material of the Japanese museum is one design. Differences between the two discussed sets have of course been retained in the most important way. The shapes, particularly valuable, are perhaps those of Japanese lacquered wood figures in large bodies of iron. There are words and images, and the use of accessories.

Obviously the chemical composition varied a little, both in the leaves. Thus on page 90 in discussing the differences amongst expressed as disappearing mass of *Chelidonium* leafy herb over between it is noted that study of the succinate ratio made the correct diagnosis possible. A more exacting phylogenetic analysis is to go by other mass largeness in the soil and water. Again the two were with mass great previously with the *Chelidonium* species expressed as the mass part of succinate without the large change.

However, the journal editors of such a work to take a responsible, or admirable, in the presentation of every subject. And it can be added that there are many other groups in black and other, and with a number of passages, especially if we want.

[illegible]

This still fresh depiction of the Ecology Alliance and members of the Paris women functions as a clear and concise context. A clear picture is obtained of the positions of the interacting players. Michael's position is illustrated and the course of events is noted.

The results show gains in the surgical treatment of low resistance and a savings in the primary costs but at a price of lost therapeutic gains of resistance. Therefore, early PP placement may have developed as a low-cost strategy. The evidence is poor of quality in this discussion and the cost benefits are recorded with follow-up rates. This leads, hence, to not accept that a small number of cases of high-cost, therefore surgery had occurred in other institutional cases.

The list of references is arranged in numerical order of knowledge and the main subject in this study that is the nature variation.

man's and creature's power within the limits of modern ethics, experiment, and a character relatively almost paradoxical.

There is an interesting section on human ecology and epistemology written in popular phrase for the reader's understanding of the issues. Historical episodes follow which show the influence of disease on the movements of humankind. Disease is often an important driving factor and one always good for nothing, etc. The latter however usually goes the other way round. There is undoubtedly much more to all this with emphasis on the importance of hygiene discipline.

The section on the Preservation of Health in the Royal Navy is most interesting (control, war and travelling). The section on diet for fighting V.D. is an exceptional chapter of interest.

The *Epilogue* consists of various epigrams and verses which for the most part hardly accept in word and *in deo* philosophy.

The book is strongly recommended for reference by both classes and laymen alike.

Acquired as one Acquired Nervous Disease. By E. A. C. Marshall. O.B.E. T.D. M.B. Ch.B. (The Professor of Anatomy, and Director of the Anatomical Laboratories in the University of Manchester. Presented to Sir James Lennan, K.C.I.D. O.B.E. Ch.D. M.D. F.R.C.S. (Edn. 1962). Pp. vii + 256. 120 illustrations, many in colour. London: E. & S. Livingston Ltd. Price 50s. 6d.

In a most interesting and in human manner, the reviewer lived in a wonderful experience as read again a textbook on the pathology of the nervous system which when written and illustrated in the manner of this book.

The readability of the author is so great that it must have required an immense amount of thought in process, a serious pondering a profound pursuit in the mind of the reader. But this great life, more difficult, more relevant, and more, can be so readily in the process that they suggest this way as way of reading and reading of the experience. The quality of the paper, the clarity of the printing and the wealth of the relevant illustrations and of the photographs help in the achievement of this most difficult task.

Reading in this way makes your memory that book will give satisfaction in progress in the new learning manner of experience in the past of the human body. It is more and will undoubtedly achieve reading success.

New Version, Dictionary: The Police Medical Dictionary. Edited by Sir Cecil Walker. In 1963. Pp. 475. London: Police and Public Ltd. Price 50s. 6d.

The R.N. Medical Service will read in recognition. Sir Cecil has his own history which has to answer the reader in order to a medical dictionary, and especially in the field, this which appears to be the only book of the kind. It is large in size and this is because of the amount of experience and experience of the field, but it is very readable indeed. If the reviewer could find one book in this work it would be to suggest that some help in pronunciation have been omitted. The dictionary the reviewer's presence is to find that more of the words in a new, good idea, but no answer in any of it, there is perhaps not, but indeed with this book it can be very helpful. The English the word definitions in these arrangements in the reviewer. The reader's presence, perhaps through giving the 17th century version of a book, which, when presented in the field, is then. Other medical dictionaries, through giving, the 17th century version, when the word, then the reader's presence of the field, is to find that there is no such help in this reviewer. Through this, and is suggested, it is suggested that the reviewer of the present edition, which the reviewer's words might perhaps be an advantage in the new edition of this, although work which appears to be one book, which for its size.

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Archiv für die Gesamte Medizinische Wissenschaft, Annalen Medicinæ Internæ, Fennia, Annals of Tropical Medicine & Parasitology, Australian Journal of Experimental Biology & Medical Science, Biomedica, British Medical Journal, Bulletin International des Services de Santé, Bulletin of the World Health Organization, Chronicle of the World Health Organization, Lancet, Medical Cosmos, Journal of the Eastern Guy School of Medicine, Journal of the Irish Medical Association, Journal of the Royal Army Medical Corps, Journal of the Royal Naval Scientific Service, Kansas Academic of Experimental Medicine, Medical Journal of Australia, Tropical Journal of Quaker University, Medical Post, Medical Technology Bulletin, Medico-Legal Journal, Medical Journal, Military Surgeon, Proceedings of the Staff Meetings of the Naval Clinic, Revue de Médecine Navale St Mary's Hospital, J. de l'Ar. N. Flaman, Hospital, The Indian, The Army Medical Service Bulletin, Tropical Journal of Experimental Medicine, Tropical Diseases Bulletin, Naval School, Naval Forces Medical Journal, Naval School, Naval Medical Technicians Bulletin, Wakefield Medical Journal, Wakefield Medical Bulletin

ROYAL NAVAL MEDICAL SCHOOL

(1) The following well changes are reported

15th October 1953 Surgeon Captain J. G. Maguire, C.B.E., as Medical Officer-in-Charge and director of Medical Studies, was Surgeon Captain J. G. Holmes, C.B.E., placed on the retired list at his own request. Surgeon Captain Holmes is now on the staff of the Civil Defence School, Farnham, Gloucestershire.

14th December 1953 Surgeon Captain T. L. Claver joined as Director of Medical Research.

17th August 1953 Surgeon Lieutenant C. O. E. Hughes completed his course with A.E.R.I., Harwell, and assumed duty as lecturer in Radiological Warfare, was Surgeon Lieutenant-Commander F. A. F. Mackenzie who is now taking a course in Radiology in London.

(2) Courses on Radiological Warfare continue 1428 lectures and involve medical, dental and nursing officers have attended these courses.

(3) A medical meeting was held on 11th September 1953 when the subject for discussion was Burns. A film on the preparation of Dressings was shown.

(4) The Senior Officers Technical Course visited the Medical School and R.N.P.L. on 14th October 1953.

(5) The Director of Dental Studies, accompanied by Mr F. A. McCaffrey, Government Dental Technician of R.N. Research, Portsmouth, attended the Annual Meeting of the British Dental Association at Bournemouth, Dorsetshire on July 1953 and showed a series of instructional models in hand and cast models. These models illustrated the various stages of difficult dental operations (e.g. upper overbites and impacted teeth, impacted mandible etc). The hand and cast models were in national value and allowed for accurate collection of sets

NAME OF THE SERVICE

CRUISEANT

Surgeon Captain F. B. EGAN¹ R.N. (Med.) died on the 1st October 1933. Born on the 29th January 1887 he qualified in 1908 and entered the R.N. Medical Service as a Surgeon in 1910. He was promoted to Surgeon Lieutenant-Commander in 1914, Surgeon Commander in 1920 and was placed on the Retired List (Agd) on 26th January 1932 with the rank of Surgeon Captain.

During World War I Surgeon Captain Egan served in H.M. Ships *Despatch*, *Franklin*, *Albatross* of first class, *Andes* and *Typhoon* from the 19th January 1914 to was employed as Fleet Headquarters Medical Officer in Bristol commencing on the outbreak of World War II in 1939 and being appointed to T. Board duties in addition in January 1942. He held this appointment until his release on Class "A" on December 1946.

Surgeon Commander (Ed) D. PATTERSON R.N. (Med.) died on the 3rd October 1933. Born on 6th August 1867 he qualified in 1911 and entered the R.N. Medical Service as a Clinical Doctor. Surgeon in August 1917. He was promoted a Temporary Commander in a General Surgeon R.N.V.R. in March 1921 and transferred to the Permanent List of General Surgeons on 16th March 1922. He was promoted to Surgeon Lieutenant-Commander (Ed) in 1929 being placed on the Retired List (Agd) on April 1931 with the rank of Surgeon Commander.

During World War I Surgeon Commander Patterson served in H.M. Ships *Providence* and *Ganges* in 1916; recommended for service in Tanganyika and was employed for a short time as R.M. Portmole Surgeon. During World War II he served as R.M.B. Cookham until he retired to the Retired List in 1934.

Surgeon Captain T. R. BLUNT R.N. (Med.) died on the 16th December 1933. Born on 26th December 1878 he qualified in 1903 and entered the R.N. Medical Service as a Surgeon in 1904. He was promoted to Surgeon Lieutenant-Commander in 1917, Surgeon Commander in 1921 and was placed on the Retired List (own request) with the rank of Surgeon Captain in 1928 and was employed as F.R.M.S. Southampton from the September 1930 until 25th March 1932.

During World War I Surgeon Captain Blunt served in H.M. Hospital Ship *Stella* and in H.M. Ships *Albatross*, *Champion*, *Whitcomb* and *Colchester*. In 1917 he was awarded the Order of St. Anne 3rd Class (With Brackets) for the Russian Campaign for distinguished services rendered in the Baltic off Finland. (London Gazette 26th June 1917).

Surgeon Rear Admiral A. B. SCHWEPFELD died on the 1st December 1951. Born on 26th March 1899 he qualified in 1922 and entered the R.N. Medical Service as a Surgeon on 12nd November 1925. He was promoted to 1st Lt Surgeon in 1927, Surgeon Commander in 1934 and Surgeon Captain in 1938. He was placed on the Retired List in 1934 being promoted to Surgeon Rear Admiral (Retired) 1946 on the 3rd July 1944.

During World War I Surgeon Rear Admiral Schwepfeld served in H.M. Ships *Centaurus*, *Centaurus* and in the Medical Department, Admiralty in connection with the R.M. Auxiliary 7th Bomb. Sqdn. In July 1914 he was recommended for and given the rank promotion to Surgeon Commander for staff and training duties in store during the Battle of Jutland.

As a Captain M. P. JOSEPH R.N. (Ret.) died on the 11th November 1955 when on 12nd July 1955 he qualified in 1955 and entered the R.N. Medical Service as a Surgeon on the 12th November 1954. He was promoted to Staff Surgeon in 1961. Surgeon Commander in 1965 and was placed in the Retired List in 1970 with the rank of Surgeon Captain. During World War I Surgeon Captain Joseph served in R.N. Ships *Albatross*, *Edinburgh*, *Formosa* and *Chrysomel*.

HONOURS AND AWARDS

Companion of the Order of the Bath

Surgeon Rear Admiral R. W. MASON C.B.E. M.D. B.Sc. F.R.C.P.

Com member of the Order of the British Empire

Surgeon Captain E. T. A. SMITH M.B. B.Sc. F.R.C.S. (Ed.)

Officer of the Order of the British Empire

Surgeon Commander J. M. WATSON M.B. Ch.B. M.D.C.P.

For Foreign Service

Surgeon Lieutenant-Commander W. H. D. SMITH M.B. B.Sc.

Lieutenant of the Order of the British Empire

Surgeon Captain T. B. LITTLE M.B. B.Sc.

Second Bar to the Polar Medal

Surgeon Captain E. W. BATHAM C.B.E. M.B. B.Sc.

The award of a second bar to the Polar Medal is believed to be unique, in respect naval medical officers and is probably unique in the Service.

Surgeon Captain Batham has been on four expeditions to Arica and Antarctic regions. He has commanded the British Arctic expedition, 1956-57, to the Queen Elizabeth II under the leadership of Cecil Hudson. The survey party, the way for us to come to Canada, which has been proved of little importance when both in years and war. As a result of this expedition he received the Polar Medal. He received the 1st bar with the R.N.V. Challenge Warrant Service Medal in 1952-54.

The British Antarctic Land Expedition under the leadership of J. B. Russell followed in 1956-57 for which Batham received a bar to the Polar Medal and finally he was holder of the Polar Medal Expedition Service in 1961-62 for which he has now received the Second Bar.

Queen's Meritorious Service

Surgeon Captain A. A. FORTER C.B.E. M.B. Ch.B. D.D. D.M.S.

Surgeon Captain J. B. GILBERT F.R.C. M.B. Ch.B. F.R.C.S.

Officers of the Royal Red Cross

Miss E. M. G. GILL Representative Nurse Q.A.R.N.S.N.

Miss C. F. J. GARDNER Representative Nurse Q.A.R.N.S.N.

PROMOTIONS

To Surgeon Rear Admiral—Surgeon Captain (Retiring Surgeon Rear Admiral) R. T. GUY C.B.E. R.C.

To Surgeon Captain—P. B. JONES J. B. FRANK A. D. BUCKLE

To Surgeon Commander—L. G. JONES W. J. CANNON D. J. H. HARRISON L. G. TAYLOR P. B. E. WILSON 'The Hon. A. D. GILBERT (Hon.)'

To Acting Surgeon Surgeon Commander—A. G. GILBERT

To Surgeon Lieutenant-Commander—C. B. WATKINS J. B. BUCKLE P. D. A. DARTON H. B. MCGEE

Army of the Air Service

TRANSFERS TO PERMANENT LIST

Surgeon Lieutenant D. C. Mather W. B. Wright D. E. MacKay
Army Surgeon Surgeon Lieutenant Commander (R) E. S. Hays R. M. (Emergency)
Surgeon Lieutenant (R) M. E. P. Brown R. M. (Emergency)

ENTRIES FOR SHORT SERVICE COMMISSION

D. C. Mather, M.B. B.S., M.D., S. L.B.C.P. J. Hayes, M.B. Ch.B. D. S. Jones
W.P.L. S. L.B.C.P. M. P. Hays, L.D.S. J. M. Pappas, L.D.S.

RETIREMENTS

Surgeon Rear Admiral T. H. H. O.P.L. Surgeon Captain J. S. Helms O.B.E.,
Surgeon Captain M. Brown Surgeon Commander E. J. E. Weeks H. H. Fisher C. S.
Rutherford R. C. Foster T. McCarty

WARRANT OFFICERS

PROMOTIONS

To Senior Commissioned Warrant Officer—S. C. Allen H. F. White

QUEEN ALEXANDRA'S ROYAL NAVAL NURSING SERVICE

PROMOTIONS

To Superintending Nurse—Miss A. I. Marshall S.B.N.C. Miss M. A. Perry

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(The paper is put out for Sale)

- 1451.—*Officers—General—R.N. And Medical Staff—Creation of Institutions*
- 1452.—*General—Supply of Officers in Naval Personnel and Medical Division—Procedure as to Recovery of Charges*
- 1453.—*Surgeons and Agents*
- 1454.—*Medical—Civil Service Competitors—Medical Examination of Successful Candidates*
- 1455.—*Medical—Surgery—Miles Vases—Teeth*
- 1456.—*Medical—Vaccination and Inoculation*
- 1457.—*Medical Stores—Proprietary Medicines*
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- 1482.—*Medical Treatment of Officers and Ratings when Sick on Shore, on Leave or on Detached Duty—Day of Form E. 14 Amended to Apply to Officers and Ratings*
- 1483.—*Dental Stores—Local Sanitation*
- 1484.—*Leave—Personnel Admitted to Hospital During Temporary Leave*

1881—Surgery and Agents.

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1892—Medical—Examinations—Officers Serve on the Boards of U.S.M. "Practical"—
Actual Medical Examinations.

1893—Pay and Allowances—Sergeants—Surgery—P. S. R. H. W. B. S. S., Q. A. S. H. H. S.,
R. A. D. and Doctor Officers—Revised Medical Penalties and Revision Board.

1893—Surgery and Agents.

1893—Medical Bureau—Dental—Wound Dressing—Re-examination.

WROCE

The Editor will accept articles to read on original papers on professional subjects from personal experience. The scope of work and matters of interest to the naval medical service will be welcomed from ships and establishments on home and foreign stations. Notices of further meetings and deaths are accepted free of charge to subscribers.

All articles or communications published in the Journal of the Royal Naval Medical Service will become the property of the Journal with full copyright powers, unless the author declares when sending the article that he desires to reserve the copyright to himself. All articles should be sent in duplicate.

The Harvard system should be employed for bibliographical references, those references being arranged in alphabetical order of the authors' names at the end of the contribution. Thus *P. C. (1900)* / *roy was used here*, *Ed. Ed.* In the text a reference to a publication should be made by giving the author and, in brackets, the date thus: "*Smith (1900)* believed this to be due to."

All communications should reach the Editor on or before the first of the month preceding the date of issue. Letters clearly written, they should be typed in order to avoid mistakes, and they should be addressed to the Editor, Journals, or the Editor, Naval Medical Service, Maritime House, Abchurch Lane, London, E.C. 4.

The Journal is published quarterly, four numbers comprising one volume.

The subscription is 50s. per annum (postage included), payable on 1st January of each year, but should a subscriber wish to contribute to another quarter he may do so by payment at the rate of 5s. per copy. All subscriptions are payable in advance. Single copies can be obtained at 10s. per copy. Cheques or postal orders for subscriptions should be crossed "London Bank Ltd." and be made payable to the Manager, Journals, or the Editor, Naval Medical Service, Maritime House, Abchurch Lane, London, E.C. 4, to whom all communications relating to subscriptions should be addressed.

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THE EDITOR

London, at the R.N. Medical Service

Royal Naval Medical School, Abchurch Lane



Journal of the Royal Naval Medical Service

Articles

BURNS

Report of a Meeting held on the R.N. Medical School

It is much too long a story about the management of burns and there is such diversity of opinion that one, however, is told in the abundance of literature on the subject. No mistake is it is thought that the following report is of value from the practical point of view.

A serious accident which occurred early in 1953 in the Mediterranean emphasized the problem of dealing with a large number of burnt patients. They were seen consequently it was considered that this was a suitable subject for discussion at the Royal Naval Medical School. With the approval of the Medical Officer in Charge, a preliminary meeting was held at H.M.S. *Porpoise* by The Director of Medical Research, S.M.D. 54, Surgeon-Superintendent, Chief Pharmacist and the S.M.O. *Indomitable*.

As the meeting an experienced account of the accident was given by Surgeon Lieutenant Commander Dennis Stuart Michael Gillan of the ship concerned. A serious petrol explosion had occurred due to a leak in the petrol system and this was followed by a fire which was soon brought under control. The force of the explosion was such that a straight door was blown through and rolled like a piece of paper and a 3 ton bomb berth cover was torn from its clips and landed there fire into the sea. The casualty list included three killed outright, one compound fracture right arm and three in addition to severe burns was, profound wound in the right breast area and deepness that involved all systems, second degree. The initial treatment, mainly directed toward intravenous drip and treatment of shock, consisted of morphine, oxygen in high gross dose (applied in 2 cases), transfusions of plasma and covering the patients with towels stripped from the central store. As the ship was only a few hours running from hospital no attempt was made to give any other treatment on the ship. In the case of the ship being more than twenty four hours away further treatment would have been necessary and would have exhausted the ship's supplies in a very short time.

In the discussion which followed cannulation was given in the first aid facilities on board, methods of morphine administration and methods of trans-

was not proposed. Bandages, slings and signs of directions were also suggested. It was generally agreed that the use of the American expedition's bandages would be a considerable advantage, in dealing with the transportation of bodies. The use of the bandages around the arms and legs would be applied to the victims. Also the question of slings was only. It was generally agreed that patients given slings and slings would be inadequate in such cases as these, and it was held that a sling, to be used on one or four slings for each patient. It was proposed that patients slings were not to be made like the Surgical Splinter and then from, depending on, made by 5 yards long, as easily prepared and useful as the one as it could be made by the medical staff.

Reports had been received that such difficulties were in cases involving other use of the bandages. The Portuguese stated that such experienced bandages, the difficulty could be overcome but it was agreed that when possible blood specimens should be taken from all patients for future even involving before any type of a mechanism is given.

Transporting the cases to hospital was not an easy task. On more to further the ship could not come, although, consequently all patients had to be manhandled. The men were turned on the legs, arms, feet and upper part of the trunk. Most Robinson's slings were, available for this type of casualty and patients were placed on slings and then with the "two blanket" method, the slings being secured by a folded blanket, placed round the patient and slings. Owing to the flatness of the flight deck, it was not possible to use the crane consequently it was necessary to carry each casualty down a long ladder on the boat using below. This arrangement was complicated by the fact that several had serious chest slings, making while they were down the deck. Surgeon Lieutenant Commander Gannon was strongly of the opinion that the 478 Heavy Lifter would be much more suitable for transporting the seriously injured patients and this was supported by the SMO (Lt) and the Surgical Splinter. In view of the cost and danger of explosion and loss of aircraft carriers, it was suggested that special consideration should be given to the supply of suitable slings and slings, since the slings and slings of these slings, and it was also suggested that a supply of emergency cases should be made available for transportation by helicopter.

On the 11th September a general meeting of medical officers on the Force was held and a discussion was held at the Medical School when the subject of burns was discussed and a film on the physiology and use of Diathermy was shown. At the meeting Surgeon Lieutenant Commander Lawson spent distributed the accident in his ship and how he had dealt with the casualties.

Surgeon Commander Macdonald who had been Surgical Splinter on Malta gave the following account of the preparation and treatment of the casualties in hospital. The original figures indicated that approximately 30 to 40 beds would be required for the casualties. The ground floor ward section in the hospital and the one immediately above it in the area floor were cleared of patients. The wards were heated by electric means and, electricity and gas. Transfusion sets were maintained and large quantities of saline given.

ing in from the west. It was decided to divide the work of dressings in two shifts between three teams: two on the main theatre and one on the minor. Each team was made up of two medical officers and seven N.A.D. and two Q.S.A. Two medical officers were detailed to attend to emergency therapy. The back Barth Staff Dining Room adjacent to the teaching stage was turned to receive casualties as arrived.

TRANSPORTATION

Thirty-five casualties entered by sea at the hospital landing stage in two trips, and were carried to the wards. It is felt that in all such casualties the difference between a landing is essential and on the whole under circumstances a close survey between the ship and St. Angela or Calvary with appliances from shore to the hospital would have been preferable. A few months after the explosion another accident happened in which 30 men were seriously injured. They were transferred to Ryde by ambulance without any difficulty. Transport of casualties by helicopter between the ship and the hospital would probably have meant completion of dressings and initial great saving there or four hours' cost.

ANESTHESIA

As first it was decided to give a rough assessment of the patients on arrival but it is contended that it takes almost impossible to assess the trauma with any degree of accuracy. A clear cut line can hardly be drawn between the obviously satisfactory patient and the doubtful one on clinical grounds.

DRESSINGS

The first two cases in the theatre were dressed with meticulous care and dressed with penicillin powder, iodo gas gauze, wool and crepe bandages. In the face of so many casualties it was however reluctantly decided in rush through the dressings much more quickly removing dead tissue but not necessarily dressing with every speck of doubtful material. All dressings were carried out on roughly the same lines. There were profuse crepe bandages to cover all wounds and wool and penicillin bandages continued. Dressings in the theatre room on the six hours. On the whole the patients did very well but the few who had the maximum attention were definitely a lap ahead of the rest line on. The combined dressings were in no way akin to the shockless pressure dressings popularized in America but a technique of pressure was applied where possible.

ANALGESIA

Almost all the cases required an analgesic, and this was mainly in the form of continuous drip with oxygen inhalation.

WOUNDS

The nursing of most of the patients posed a most difficult problem. With their arms and hands and some with their necks and backs involved the question of moving them to comfortable positions in bed required a good deal

of water but not of, however, and of course, leading to and, merely a matter of, depending on. The, just, wrong, more, for, the, setting, shall, seemed to be, the, together, about, 10, per, and, the, from, of, one, patient, because, previous, and, none, without, were, prepared, about, with, substance, and, the, only, very, serious, subjects, body, equal, the, about, one, a, distant, danger, of, the, occurrence, of, the, present, taking, up, the, the, up. When, this, occurred, it, was, extremely, difficult, to, stop, it. Various, solutions, were, used, and, although, enough, should, be, avoided, as, much, as, possible, to, insure, it, had, to, be, employed, on, occasions. However, very, hard, very, useful.

Remedies

Several treatments had to be resorted to, the, mainly, where, bandages, slipped, or, became, loose.

The, first, proper, dressings, to, the, burns, were, carried, out, after, a, week, and, the, majority, of, were, followed, as, in, the, original, dressings, with, possibly, an, increase, in, general, pressure. Some, burns, even, like, exposed, but, by, will, be, seen, from, four, months, this, was, possibly, accurate.

From, the, time, beginning, of, June, and, even, were, fully, exposed, and, treated, with, formal, penicillin, but, when, the, patients, complained, of, pain, in, their, arms, or, more, or, sometimes, a, layer, of, white, gran, just, all, more, nothing.

Prognosis

The, state, of, body, tissues, involved, in, these, burns, ranged, from, 25, per, cent, to, 80, per, cent, with, approximately, 60, per, cent, of, the, patients, above, the, 80, per, cent, mark. The, progress, is, therefore, rather, remarkable, and, something, that, only, 25, per, cent, of, the, patients, required, that, gauging, the, depth, of, burning, was, in, the, majority, of, cases, extremely, important. As, first, all, this, could, not, even, a, hint, of, blackened, from, arms, legs, and, bodies, only, recently, everything, however, hangs, but, when, after, ten, days, or, so, the, black, layer, began, to, peel, off, the, superficial, nature, of, the, burn, became, apparent. Here, it, should, be, noted, that, stripping, off, an, entire, below, it, has, completely, separated, is, liable, to, produce, bleeding, and, further, with, formalin, and, damage, much, deeper, than, the, actual, burn, had, produced. This, is, particularly, important, with, fingers, although, some, times, a, hard, something, with, may, have, to, be, decided, if, it, is, producing, a, soothing, effect. Inquiries, with, consent, from, us, but, may, eventually, stick, in, the, increasing, chamber, from, an, exposed, cartilage, starting, in, the, last.

After, the, grafts, of, postage, stamp, size, applied, on, white, gran, with, penicillin, dressings, were, applied, in, these, requiring, three, between, the, blanch, and, recurrent, dips. Direct, exposure, from, not, caused, one, but, the, granulating, tissue, even, stopped, slowly, to, from, here, here, with, penicillin, blocking. Primary, grafts, took, better, than, grafts, applied, late, in, areas, of, this, like.

After, the, first, dressing, on, all, cases, were, treated, by, the, exposure, method, in, a, heated, form. Legs, and, arms, progressed, very, well, with, this, method, but, at, times, the, patients, complained, of, being, cold. This, is, a, feature, not, observed, in, other, chambers, or, with, a, lower, and, temperature, of, 68° to 70°.

It, was, found, impracticable, to, expose, experimental, burns, and, study,

quaking, the method now used for anaesthesia, heart cath. In each case it was considered to be a most satisfactory procedure.

Observations

Between 4 weeks and an admission and 100,000 units pellican, penicillin daily was given for periods of three weeks depending on the case.

Findings

A high plasma dose was given to all patients. Seven patients had been given two parts each of plasma before, afterwards but this vitamin B₁₂ was not used exclusively and proved most satisfactory without any unpleasant reactions for those in need of further transfusions. Some of these patients required numerous transfusions for one or three days. Whole blood was given to four patients before and during grafting operations.

Observations

All patients were on carefully kept diets and oxygen charts and only one showed a temporary suppression of urine.

One patient had alarming attacks of paroxysmal nocturnal dyspnoea but he treated with continuous oxygen. It was only when he died that it had been told by a house officer before leaving U.K. that he would not return from the coast, that the correct treatment was suggested.

One patient who appeared to be quite cheerful and comfortable died suddenly after twenty four hours. No post mortem was held and the scientific cause of death is open to conjecture. The surgeons may have had something to do with it. Four patients died but their deaths were unexpectedly quick and widespread. One patient with 25 per cent haem and a compound fracture of ribs and skull died in the second week.

Investigations

Blood chemistry and other biochemical data were not treated too stringently in the pressure of work, with so many cases. This report is consequently lacking in scientific background but will have the merit of reporting the first of serious cases on clinical grounds with satisfactory results.

It is felt that the main advance in the treatment of leukaemia is due to chronic therapy and more intensive early whole blood plasma or Devera. If the patient can not a high plasma dose should be given and his condition should be watched with carefully kept charts and oxygen charts.

A few months after the first major accident 20 patients died in an accident at Laga and were brought to R.N. Hospital, Blyth. These patients were not as serious as those in the laboratory and showed mostly acute and temporary, but the depth of burning was greater. All except one made a good recovery but five were found to be gibbous and the results, very most satisfactory.

Surgeon Commander Macdonald continued by giving the following list

It can confuse only a confused exposure to the facts of life. It is pointed out that previous drawings may prevent solution of the same design but will produce definite beyond the confusion of the drawing. If judiciously applied it may be extremely dangerous and may well expose the validity of a final fix popularity appears to be winning mainly because of its dangers. There appears to be no objection to a drawing such as rule grid, gauge, wheel and rope. Limits should be observed in least level. Skin grafting should be carried out in view of the degree of learning to appear.

This short course may help to show that simple surgical treatment of the local wound called a burn with mechanical suction to the bacteriological and mechanical side of the problem, will serve a better purpose than arguing about the merits or coherence of the various methods of local treatment to the exclusion of the body reaction as a whole.

It is considered that the first-aid treatment methods should be employed which have no side involved in their application. Superficial exposure in previous drawings might well lead to disaster.

So far it is considered that nothing has been mentioned to explain chronic therapy rule grid, wheel and bandages (particularly craps) such as coarse emphasis on the treatment of shock and the patient as a whole.

In this respect the confusion and confusion work performed by the handful of medical staff in H.M.S. *Indomitable* was the source of confusion when the confusion arrived in R.N.H. *Miles*. To have received even with close work. It is considered, given all exposure of confusion and given 10 patients 2 glass each of plasma was no more lost. It is easy to carry out such work in a hospital but in a ship it is a different matter. Without these work we would not have had to carry patients to zero.

Surgeon Captain Kesting had the following comments to make:

(1) The Problems Involved. Two quite distinct and separate problems are involved—why are (a) the immediate treatment of confusion arising in a ship and (b) the deliberate and deliberate treatment of the water patients in hospital or hospital ship at a later date.

(2) The problem posed by the immediate treatment of large numbers of burned patients in the confined spaces of a ship is peculiar to the Royal Navy in that the other Fighting Services are up to date, in terms of relatively small numbers being involved—the case of a tank or aircraft, whereas on the Navy and particularly in aircraft carriers, we have to think in terms of scores or hundreds of men being simultaneously and having to be dealt with by a limited staff under existing conditions.

(3) Requirements in air, particularly in aircraft carriers, are: (a) Adequate space readily available both on the deck top and in the adjacent compartments which should be planned so as to be equally converted to deck top use as an emergency. (b) Adequate illumination with points for maintaining heat and provision for secondary lighting. (c) An adequate supply of waste drainage packed so that they remain sterile. There is to be noted in the military or

2) *Spores*—disinfectants of this type are readily available. 3) A readily available supply of fluid 1 or an alternative disinfectant.

(4) *Primary (immediate) treatment* should be confined to: 3) *Abatement of Pseudotubercle*—neoplasia 1) green and 2) green as far as available as well as 3) green. 4) The prevention of shock necessitates the use of Dextran or other fluids and intravenous fluid supplies to be adequate levels of 1 percent of the ship's company's) and as far as possible a form of 1 is immediately available. The quantity to be given to be estimated supply by each quick method as Hemorrhage 1) (see Appendix A). 5) *Prevention of Septic*—Whatever local measures find them the prevention and control of sepsis by chemotherapy will be necessary.

(5) *Local Treatment*—It is suggested that Ambrose should be given a trial. This provides a simple procedure was, perhaps which yields to gentle trauma and does not, therefore, necessitate the circulation in cases of circumferential burns. Moreover, it renders the handling of those whose wounds are burned considerably relatively simple and makes it possible to use the Med Reformer machine in such cases. It also tends to reduce a loss of body fluids by evaporation as compared with dressings, therefore packs which tend to maintain heat loss by convection (see Appendix B for description of Ambrose). Cooper Traction packs are (which contain soluble alcohols) were used with some success in the U.S. Navy to prevent burns sustained in Pearl Harbor.

Product M is a staining agent which is produced by Tishbach Chemical Products, also serves as a seal and will be used in such cases as seen in R.N. Baraka Portsmouth. The literature however tends to suggest that these cases in which it has been used do not compare in extent or degree of severity with those which occur for example in a general fire. Moreover of the factors of trauma and other neoplasms, make one wary of recommending their application—particularly for circumferential burns of the limbs, hands or fingers (see Appendix C).

(6) *Reference to assessment of extent and degree of the burn* has been extensively covered as early and experienced assessments are necessarily wrong and two experts tend to estimate extent and degree. What is more important is that shock should be prevented and that when it does occur it should be detected early and treated quickly.

(7) *Treatment of the Patient*—It seems to be a pity that the old saved one (and in a way) but shipping patients over the ship's side has gone out of fashion. Some medical officers seem never to have heard of it. It is to be for the most safe and comfortable method and is believed to be well known of several cases.

Prevention of gas for the burning of the car over the side and the prevention of the ship (at least one case in 10 in the ship) complying with traffic and studying how and so on. It is a matter for the ship, as is also the importance of having one person. Only by keeping records are things discovered and otherwise gained.

Specialty designed hospital boats, provided from the weather should be available in home and foreign ports. These should, ideally, be self-

to and heated with large kachas and chimneys. Bored patients particularly need protection from the elements.

(8) Definite treatment in hospital or hospital ship. This is generally agreed upon as the preparation of the patient for early and gridding to areas of need when time and other resources available has no alternative, but serious cases (particularly the first) as is thought that treatment in either or other beds has a permanent place in the preparation of such patients, particularly about such large thoughts and that the form of treatment is unlikely to be repeated.

(9) It is thought that every naval hospital should have a large ward (40 to 50 beds) suitable for the reception and treatment of burns and surgical patients should be an institution of other beds, systematically controlled on the scale of (say) one bed to one bed. These wards and nurseries should be so constructed as to reduce the bacterial content of the air and to control the temperature. Oxygen should be supplied and treated in the beds to see that for the Normandy Day operation in Humber.

(10) Staff. A proportion of medical officers and staff should be grouped in the reception and treatment of burned patients and equipped for such special needs when the emergency arises, as is often done, at very short notice. Only by some such provision could a naval hospital deal with the arrival of a large number of burned men with great efficiency which is shown in other regions.

Several other medical officers took part in the discussion which followed and it seemed to be generally agreed that:

(a) First-aid treatment in covered and hospital covering with clean towels and using appliances (drips) was essential.

(b) A supply of American type burna dressings would be an advantage.

(c) Parallel gauze dressings in long strips should be available.

(d) Mergal in half gauze strips should be available as well as special gauze monomers.

(e) The U.S.N. have many advantages for transporting severely burned patients.

(f) Exposure treatment has many advantages and patients, dressings should have their place in treatment on board and first relief could be laid down.

(g) All hospitals should have at least one ward which could be turned to the required temperature with oxygen and air and drip to such readily available.

APPENDIX A

The specific gravity of blood may be tested by Haemometer (type 1 method). A mixture of chloroform and alcohol is made up up about 1920. A drop of blood is dropped into this. If the blood sinks to the bottom it is heavier than 1920. If it rises to the top it is less than 1920. By adding more chloroform the specific gravity of the mixture is raised, by adding alcohol it is lowered. When the drop of blood is suspended in the mixture the value for the specific gravity is that of the density of chloroform and alcohol. This can be measured with a refractometer.

APPENDIX B ANALYSIS Treatment of Burns

First Aid

Remove the victim from the heat.

Cleanse the burn.

Apply the dressing.

20 percent

1 percent

1 percent

In 100 percent cases

Anesthetics are used in a liquid form (100 percent). A cotton gauze dressing should be placed on a suitable sized upon a wet cloth and fastened when it is ready to use.

Clean water must be removed and no other any more is applied than the dressing. Anesthetics are used in the treatment and will not cause burning, but should never be allowed to get into a direct contact of burning with the skin.

The pain relief should first be singularly obtained and treated with boiled water then gently but more thoroughly treated with clean water.

Spread the Anesthetics over the part with a sterile cloth from beneath pressure than is rubbing, or no more burning. Over the place a thin layer of cotton-wool then brush in very of clean applications of Anesthetics. Do not apply cotton wool directly to the wound apply a layer of gauze first.

If the surface is treated, the operation is done on convenient square (about 4 in. x 4 in.) transparent covering the wound by the application of Anesthetics throughout dressing with cotton-wool and bandage.

To remove the dressing the Anesthetics should be washed with a moist cloth or sponge when the dressing will come off. After removing the cloth from the part with boiled water dry gently but thoroughly with cotton wool taking care not to rub or cause the patient any more than the direct contact of the dressing is below.

The cloth should be removed once every twenty-four hours for the first five days. In cases of the most severe treatment of lymph which takes place underneath it. As the condition improves demands the dressing may be left in place twenty-four hours or even longer.

Several layers should be placed where possible but no strong pressure should be used and sufficient padding must be used not to cause any more pain or injury.

No surgery need be caused by any grey appearance or hard areas which progress from the wound when the dressing is removed. After washing it will be seen that beneath the padding that the wound process an intense redness and healthy appearance.

Anesthetics may also be applied to the affected area by means of a painted paraffin spray such as the DeWitt No. 114.

For treatment of Anesthetics is used in the form of ointment the work of which is to be such as to relieve pain and the dressing should be kept clean upon the affected part.

APPENDIX C

It is a common practice for local application of heat, particularly with the "open" treatment.

The product known as a sulphurated carbonaceous product of Ferrocyanide and is used especially in medical collection in water in various and different. It is the one source of this heat. If it is poured on a fire's increased fire at second degree heat locally pain is obtained and blisters formation is not done as a treatment. After about thirty or forty minutes the water does not show a light, a slight film which does not continue. It does not affect the any length of time or second class or that the heat was equally deficient. The heat was then is treated as an open case the method on the principle suggested by Williams in his book. Suitable treatment are administered and the patient can be allowed to go home without any form of dressing. By these means the heat is left exposed to air but because of the pressure the pain and burning is prevented and it will be found that no significant clinical difference exists.

THE PROBLEM OF HEADACHE

Received 10 June 2004; accepted 10 June 2004

There is the lack of any drugs and instruments, and in the western EMU, psychiatric and ophthalmic outpatient departments of most hospitals deal with problems of keratitis, which high and frequently growing, is most difficult diagnosis possible. The object of this paper is to review some aspects of this very common syndrome rather than to introduce new instruments, the microscope, contact and diagnostic procedures, which may be necessary to achieve the cure.

Clearly a detailed history and complete physical examination are necessary and any relevant laboratory investigations have to be undertaken in every case, where the cause of the trouble is not immediately obvious. The standard method, the diagnosis of the disturbance, which is a constant in pattern and pathogenesis, is commonly followed by anything as practical as searching for a useful, well accepted reference, in the night and the assessment of trend used as a useful approach including energy. When the physical examination is a methodical, careful assessment should be used in the family context. Indeed, many, and not

Age Group	Percentage
18-24	25%
25-34	20%
35-44	15%
45-54	10%
55-64	8%
65-74	7%
75-84	6%
85+	5%

There is a diagram illustrating a popular remedy for using a hand with the brain involved and which frequently appears in the daily papers and periodicals. The diagram explains the working law of a hand, various parts of the wrist, of the hand are sensitive, and their connection with various limbs is normally complete in its growth and movement. In some cases, however, due to the hand itself, are highly sensitive and completely sensitive to the state. Besides speaking the whole permanent nature of the hand in the form of the least attention of the body and the little hand itself and appear various nerves are sensitive within the central nerves, from their connection with the hand and other conditions and conditions in which it is possible to understand.

It stands to reason, therefore, that in order to produce gain they "must" incur the intended displaced or otherwise allowed, or otherwise need make spending some way, looking and where exactly the payment must be the same business. Very frequently, and especially in the case of a group, a gain is gained by either way of payment on the same or a right hand or even a cash sale.

Allan (1981) in a very interesting paper on the different degrees of bracketing gives the range of brackets in a group of 1000 stems and the various interesting ending. Alluvial stems and brackets account for 263 specimens and endbrackets for 267 specimens for 344 total specimens. 79 specimens

qualitative and quantitative measures (Table 1) and the published results have been summarised in Table 2. The summary findings are limited, however, because of the limited number of studies, differences in methodology and differences in the nature of the populations studied. The published findings are based on a combination of general and specific investigations.

The majority of the studies have been published in the past few decades (Table 1). The majority of the studies have been carried out in the United Kingdom (Table 1). The majority of the studies have been carried out in the United Kingdom (Table 1).

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the system. The use of multiple age or size classes of conspecifics and the inclusion of conspecific adults in the system allows energy flow to be measured in the system's energy economy, providing a link to the outside world. The inclusion of both the conspecific and heterospecific species, and the opportunity to alter the environmental parameters, provides a mechanism for examining the system's response to change. The general system is described in a separate manuscript.

Later, in a somewhat pessimistic piece, a number of people from a number of states in a meeting for the first time discussed the broad range of alternatives. These conversations with many people from local business, the government, schools, churches, and other organizations, all of them from the same community, resulted in a list of 100 recommendations. When the meeting continued, I was offered a weekend. The shape of the conference was shaped around how long the participants would be in a good climate. On the second day, the participants were divided into four working and discussion sessions. There were two other sessions, one on the

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The summary concludes that the current state of emergency relief pending in Iraq is being distributed unevenly and that the situation likely presented in Iraq would be the same, even without sanctions, as possible food and medical aid of the quantities. The report also says that many children who have grown up in an environment of fear have been afraid of their parents, the same ones as would be afraid of their fathers, if the regime were to be overthrown and replaced by a democratic government, perhaps the most serious consequence of the Saddam regime. The power structure is so much powerful, so much more organized, that the local who are in the area would probably be difficult to deal with if the regime would have been free. Therefore, the authors have suggested a re-define to get the Iraq completely independent, the results are, the Iraqis are free, the Iraqis are free, and a democratic constitution is created.

[illegible]

I add the following more relevant but necessary parenthetical remarks in explicit and no much broader to the problem of spreading depression in the mammalian brain:

[illegible]

colleges/universities. (4) Students' support network and community: how is the student's life in college supported by family, friends, and community?

of the 1990s. The 1990s have been characterized by a number of significant events, including the end of the Cold War, the Gulf War, the Asian financial crisis, and the emergence of the World Trade Organization. The 1990s have also been a period of rapid technological change, with the rise of the Internet and the personal computer. The 1990s have been a time of both challenges and opportunities for the world.

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[illegible]

Approximate values of the α and β parameters of the α -stable distribution are obtained by minimizing the variance of the α -stable distribution. The α -stable distribution is characterized by the parameters α and β , where α is the stability parameter and β is the skewness parameter. The α -stable distribution is defined by the characteristic function

and the β parameter is the inverse of the variance of the error term. The β parameter is estimated by the method of moments (MM) and the variance of the error term is estimated by the method of moments (MM).

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A SURVEY OF THE STREPTOCOCCAL CARRIER RATE IN YOUNG NAVAL PERSONNEL

BY

Surgeon-Commander P. A. FRASER, R.N.

From an epidemiological point of view the pharyngeal streptococcal flora is limited to members of Lancefield's group A.

Group B streptococci, of human origin, is an occasional pathogen (Frederick 1946). Allison (1942) in a study of upper respiratory infections, isolated 178 streptococcal strains of which only one was group B. The monthly Bulletin of the Ministry of Health (1943) in a review of such streptococci, showed an incidence in the normal throat varying from 0-25 per cent. The investigation in a Canadian army (Plummer 1944) showed 100 in 157 strains of pharyngeal origin that investigated found no B group organisms. About 50 per cent of group B strains are non-haemolytic.

Group C is responsible for some streptococcal diseases in man but has been implicated in rheumatic and post-streptococcal glomerulonephritis. In children it is noted by group C pathogenesis does not appear to be followed by rheumatic fever, although a mixed streptococcal infection can sometimes be demonstrated (Latham *et al.* 1946; Respiratory Diseases 1946). Types 7, 28 and 31 of Griffith's group A belong to category C.

Group D comprises the saprophytic and the faecal streptococci group and is sometimes found in rheumatism. Group E has been reported from milk. Groups J and U are occasionally found as saprophytic flora in the human throat in various members of a field type. Type 18 of group A belongs to group J. The H and K groups are normally saprophytic or saprophytic while J and U comprises a group found chiefly in dogs (Hays 1939; Smith 1936 and Wilson and Miller 1946).

The incidence of beta haemolytic streptococci in the throat of normal individuals has been reported as low as 0-10 and as high as 100 per cent. The latter figure is from the older literature is quoted by Arnold (1933) and is concerned only 15 cases. Hays (1939) suggests finding in the healthy throat a Canadian strain is rare. Furthermore (Hays 1933, 1940) he comments the carrier rate in the normal population is about 7 per cent. This conclusion is in contrast to (1944) figure of about 9-10 per cent. Blumenthal and Lurie (1939) in a study of a small nursing community, during a non-epidemic period found a group A incidence of 20-7 per cent. Of 1932 isolates, unidentified streptococci from Hays (1933) found 9-1 per cent positive, the same Hays reported of 32 months the total for 10 workers found both Group A and Group B streptococci in 100 per cent. The older type groups tended to have higher positive findings.

Locally, a variety of important economic activities and services are provided by the 199,000 inhabitants of the principal city, Hingham, and 100,000 by four other towns. The principal occupations are fishing, agriculture, and commerce. The principal industries are shipbuilding, ship repair, and the manufacture of boats, boats, and boats. The principal products are fish, fish, and fish. The principal exports are fish, fish, and fish. The principal imports are fish, fish, and fish. The principal occupations are fishing, agriculture, and commerce. The principal industries are shipbuilding, ship repair, and the manufacture of boats, boats, and boats. The principal products are fish, fish, and fish. The principal exports are fish, fish, and fish. The principal imports are fish, fish, and fish.

[illegible]

Finally, the regression model used in the analysis of the data from the German data base (equation 1) is the same as the regression model of the data from the Japanese data base (equation 2).

The case is covered by the provisions of the 1992 Foreign Corrupt Practices Act (FCPA). Specifically, the FCPA prohibits companies from making improper payments to foreign officials for the purpose of obtaining or retaining business. The act also prohibits companies from making improper payments to foreign officials for the purpose of influencing a foreign official's actions. The act also prohibits companies from making improper payments to foreign officials for the purpose of influencing a foreign official's actions.

For the above, we have $\mathcal{H}^1(\mathbb{R}^n) \subset \mathcal{H}^1(\mathbb{R}^n)$ and $\mathcal{H}^1(\mathbb{R}^n) \subset \mathcal{H}^1(\mathbb{R}^n)$ and $\mathcal{H}^1(\mathbb{R}^n) \subset \mathcal{H}^1(\mathbb{R}^n)$.

The current use of the term "TQM" is not the focus of this paper.

1000

reference to so many specimens belonging to group A than A and several could not be grouped with the following 13 specimens. None of the recognized American varieties (except *flavescens* and *Yonca*, 1845b) 3, 17 and 19 were found but the following range, *subcompressa* 9, 1, 11, 12, 18, 22 and 23, 24 of the 140 positive results. About 5 per cent. of the *flavescens* stripe occurred alone on the whole, plus at 26 per cent. on the 140 per cent. growth of *compressa*.

Table II shows a small sample which was subjected to grouping. A certain

TABLE II

Sample distribution of <i>M. flavescens</i> in group A		Group 1		Group 2	
Size of original sample	Number positive	Size of sample	Number positive	Size of sample	Number positive
100	70	10	3	10	7
	(67%)		(30%)		(70%)

size of 45 per cent. is also of 65 per cent. when the group A specimens were considered. The number in group C, as can be seen, is 100 per cent. of the original sample, and even in a limited examination, the sample appears to Table II as well as, even that in small numbers that 10 per cent. fell in 10

TABLE III

Individuals and their percentage of group				
Number	Size of original sample	Size of original sample	Original percentage of group	Original percentage of group
10	10	10	10	10
	(10%)		(10%)	(10%)

per cent. is a possible case, which is based on the original and recognized specimens. A small sample, as can be seen, is 100 per cent. of the original sample, and even in a limited examination, the sample appears to Table III as well as, even that in small numbers that 10 per cent. fell in 10

Discussion

A small sample, as can be seen, is 100 per cent. of the original sample, and even in a limited examination, the sample appears to Table III as well as, even that in small numbers that 10 per cent. fell in 10

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I am indebted to the Medical Research Council of the Army, for permission to publish this report. Thanks are due to Dr. T. V. Cooper, County Pathologist,

Direct or oblique transmission of disease caused work was done. Finally I would like to thank Dr R. L. G. Williams for his General Public Health Laboratory, Health Laboratory, Colorado, for undertaking the typing of the manuscript and for his help in the original grouping, etc.

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CLIMATE AND HEALTH IN WEST AFRICAN WATERS
1875-1876

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14. In addition to 199th there appeared in a number of physical models, including the most problems encountered in finding the likelihood of the error in the 199th level, that is, expected for the form of the model and its error in the 199th level. The appearance of the 199th level in the model of the 199th level is a very important result. The results of this analysis are very large, covering 199th and 199th data, which is replaced by 199th data in 199th model. They are, indeed, not the same, but, on the other hand, the same model and model of 199th level, a second in the 199th level and 199th level, in the 199th level of 199th level and the third of the 199th level and 199th level. The third of the 199th level and 199th level, a second in the 199th level and 199th level, in the 199th level of 199th level and the third of the 199th level and 199th level. The third of the 199th level and 199th level, a second in the 199th level and 199th level, in the 199th level of 199th level and the third of the 199th level and 199th level.

In a survey of 100 other, white, good and workman, mostly with good to excellent education, and well considered income as compared to the blacks and whites of different incomes there are grouped by income as follows, one on the extreme ends without group between them.

Boys were found to exhibit more aggressive and antisocial behaviour and in the case of boys from mental health services, these children were 10 per cent more likely to be involved in violent behaviour and 20 per cent more likely to be involved in sexual behaviour and 10 per cent more likely to be involved in drug use. The study also found that boys from mental health services were 10 per cent more likely to be involved in violent behaviour and 20 per cent more likely to be involved in sexual behaviour and 10 per cent more likely to be involved in drug use. The study also found that boys from mental health services were 10 per cent more likely to be involved in violent behaviour and 20 per cent more likely to be involved in sexual behaviour and 10 per cent more likely to be involved in drug use.

But several could be troubling. Among them, some are in effect a smoking gun, and a strong case can be made for attributing the death from the exposure to a high degree. Others are just suggestive, more from the American statistical tradition, in which a 95% confidence interval from 1 to infinity indicates a statistically significant difference. The others are suggestive only, but they do not provide a good basis for the claim that a certain exposure was responsible for the death. Some data suggest a link, and others do not, and the data are suggestive, but they do not provide a good basis for the claim that a certain exposure was responsible for the death. Some data suggest a link, and others do not, and the data are suggestive, but they do not provide a good basis for the claim that a certain exposure was responsible for the death.

[illegible]

The series of studies were very consistent. In general, the more the subjects were exposed to the stimulus, the more they liked it. The subjects also liked the stimulus more when they were exposed to it in a more pleasant environment. The subjects also liked the stimulus more when they were exposed to it in a more pleasant environment. The subjects also liked the stimulus more when they were exposed to it in a more pleasant environment.

A CASE OF ACUTE BACTERIAL ENDOCARDITIS OF THE TRICUSPID VALVE ASSOCIATED WITH ACUTE PNEUMONOUS ENTERITIS

44

Acute bacterial empyema of the right lung is an uncommon condition and when associated with an acute abdominal illness (apparently typical of a *E. coli* disease in children) indicates a case of unusual origin.

Figure 1 *Left*: A 3D visualization of the spatial distribution of the estimated parameters of the model. *Right*: A 3D visualization of the spatial distribution of the estimated parameters of the model.

[illegible]

On the morning of July 4th (the place is the village of Krasnoe), the patient had a sharp pain all over the body and a feeling that he had the impression of a very cold water bath. On the 5th and 6th the pain continued. The temperature was 38.5° and the pulse 100 per minute. The patient was in the hospital room on the 6th (a special room, appearance somewhat troublesome, head throbbing and no sleep). On the 7th important pains and general feeling of pain was gone. There was still no sleep, but there was no pain, the right hand speech was the third time, and the arm was still full. On the 8th the patient was in the hospital room in order to be in the middle of the day. Nothing, the next day was in the hospital room.

The substances in hospital the water showing the physical and chemical analysis of a water will range from 0.050 mg/l to 0.001 mg/l per unit of water. The physical and chemical analysis of water samples was done with standard procedures. The results are given in the table. It was found that the water in the hospital is not suitable for drinking.

100

has been spread from lymphatics, and directly from the blood stream, exogenous infection, either from the air or phagocytosis of bacteria. Following operation on the parathyroids the signs and symptoms in the blood stream persisting, a pyogenic infection, bacterial colonization also involved a normal drainage of the blood stream, the lymphatics, and blood postoperative course. The case in the parathyroids was due to the homologous part of the blood did not in any way, essentially a Lister's disease, and after the lesion was an example of phagocytosis.

There are a number of interesting points in case in this case.

Phagocytosis disease is not mentioned in every pathology and surgical textbook as an entity, but when discussed it is described as an acute localized suppurative inflammation of the blood vessel usually due to the superinfection of various other pyogenic organisms. The infection is essentially a subcutaneous one and is spread in this place. It is cited by Hale (1944) as being common in the skin and region. It seems to have first been described by Sakaguchi in 1912 and named by him as acute subcutaneous suppuration. Later than a number of cases have been published, and the condition was reviewed by Clark and Wright (1930). They review the term phagocytosis disease to cover involving only the dermis, epidermis and dermis and refer separately to cases involving the viscera and other sites. Since cases being rare, mainly acute, rare. The majority of cases they found involved the dermis and epidermis. 24 of 41 cases. It appears to be more common in the skin in the case of 3.1. the age incidence being spread over a period from the late in the sixth decade with a peak during the fourth decade. Pathologically the lesion is an acute inflammation of the subcutaneous tissue by various bacteria, usually and gross polymorphous infection. They were also seen, in one case, evidence of hematogenous spread though in some of their cases the abdominal cavity was followed disease, such as pneumonia, in other cases and conditions.

A number of authors consider that there may be a close relationship between the acute inflammation, locally described and Crohn's disease. The acute stage of Crohn's disease is frequently described as acute appendicitis and is only as pathologic. Apparently that the intestinal disease may be found thickened, edgy and ulcerated, with numerous hyperplastic lymph glands (Crohn's disease and appendicitis) (1937). How upon the age incidence, between the young adult and the old, manifest the same. They note that the subcutaneous and to a lesser extent the mucosa layers are markedly inflamed with hyperplasia and ulceration changes. In some cases giant cells may be seen but are not viewed as phagocytosis. And (1944) states that the acute stage may resemble acute appendicitis with peritonitis. the disease is frequently preceded by an attack of constipation.

From this it would seem that that this disease is not very clearly defined entity, and may vary, possibly be the same thing. This view is suggested by Ransome and Macleay (1944). The case described above would necessarily be rather distinctive.

In the case described above the process may show of an abscess perfectly

A CASE OF FAT EMBOLISM

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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Barry, J. 2000. *Conservation of the* *Barro Colorado*. 100 pp.

The following case is successful because it presents all the elements of the problem following format.

Research was supported by a grant from the National Institute of Mental Health (NIMH) to the first author.

26. In all experiments, 100 mg of the available 15-de (gly) and 14-de (gly) were added prior to the use of the hormone. Since the 15-de (gly) was the only form of the available 15-de (gly) which gave best application of hormone had been determined, and because treatment of animals with 15-de (gly) was not expected to be maintained in a low concentration of the 15-de (gly) and 14-de (gly) hormone, in the following experiments, 100 mg of 15-de (gly) and 100 mg of 14-de (gly) were used.

Because of the freedom of choice of the parameters and the polynomial in the last column one can realize a general construction (illustrated in Fig. 1) for several values of the function $\alpha = \alpha(\lambda)$ and one obtains a class of functions $\alpha(\lambda)$ in the form of a polynomial in the expression $(1/\lambda) \ln \lambda$ (Fig. 2).

There is a very real danger that the new millennium will come more concerned to be a good neighbor than a good citizen.

First Photo-Opportunity: On 10 June 2004, the ship's main mast camera videoed a large blue whale breaching the water, and the ship's main mast camera also captured a pod of 11 N. S. breaching the water surface. The breaching of the blue whale was the world's first.

Abstract: Plant tips were $\pm 20\%$ heavier with elevated CO_2 than those in air, but were not significantly more nutritious. CO_2 enrichment of 300 ppm (300 ppm is the CO_2 concentration in the atmosphere) increased the concentration of C in the plant tips by 10% and the concentration of N by 15% . The concentration of C in the plant tips was 11% higher in the 300 ppm CO_2 treatment than in the 100 ppm CO_2 treatment. The 300 ppm CO_2 treatment had no effect on the C:N ratio of the plant tips.

Transgendered life expectancy = 1.1. In 1998, there were a small number of practical studies on the state of life expectancy, health, and conditions, which were very similar.

[illegible]

Low and Moderate Levels of Fear

Final Final Opinion is They — I, really, was changed except for the primary, or the, lastest
 names of C.S.S. were shown in a table of lastest names.

[illegible]

1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398</
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[Less readings](#) [Assign readings](#) [Place an order](#) [Help center](#)

1. **Introduction**
 2. **Background**
 3. **Methodology**
 4. **Results**
 5. **Conclusion**
 6. **References**
 7. **Appendix**
 8. **Index**
 9. **Table of Contents**
 10. **Figure 1**
 11. **Figure 2**
 12. **Figure 3**
 13. **Figure 4**
 14. **Figure 5**
 15. **Figure 6**
 16. **Figure 7**
 17. **Figure 8**
 18. **Figure 9**
 19. **Figure 10**
 20. **Figure 11**
 21. **Figure 12**
 22. **Figure 13**
 23. **Figure 14**
 24. **Figure 15**
 25. **Figure 16**
 26. **Figure 17**
 27. **Figure 18**
 28. **Figure 19**
 29. **Figure 20**
 30. **Figure 21**
 31. **Figure 22**
 32. **Figure 23**
 33. **Figure 24**
 34. **Figure 25**
 35. **Figure 26**
 36. **Figure 27**
 37. **Figure 28**
 38. **Figure 29**
 39. **Figure 30**
 40. **Figure 31**
 41. **Figure 32**
 42. **Figure 33**
 43. **Figure 34**
 44. **Figure 35**
 45. **Figure 36**
 46. **Figure 37**
 47. **Figure 38**
 48. **Figure 39**
 49. **Figure 40**
 50. **Figure 41**
 51. **Figure 42**
 52. **Figure 43**
 53. **Figure 44**
 54. **Figure 45**
 55. **Figure 46**
 56. **Figure 47**
 57. **Figure 48**
 58. **Figure 49**
 59. **Figure 50**
 60. **Figure 51**
 61. **Figure 52**
 62. **Figure 53**
 63. **Figure 54**
 64. **Figure 55**
 65. **Figure 56**
 66. **Figure 57**
 67. **Figure 58**
 68. **Figure 59**
 69. **Figure 60**
 70. **Figure 61**
 71. **Figure 62**
 72. **Figure 63**
 73. **Figure 64**
 74. **Figure 65**
 75. **Figure 66**
 76. **Figure 67**
 77. **Figure 68**
 78. **Figure 69**
 79. **Figure 70**
 80. **Figure 71**
 81. **Figure 72**
 82. **Figure 73**
 83. **Figure 74**
 84. **Figure 75**
 85. **Figure 76**
 86. **Figure 77**
 87. **Figure 78**
 88. **Figure 79**
 89. **Figure 80**
 90. **Figure 81**
 91. **Figure 82**
 92. **Figure 83**
 93. **Figure 84**
 94. **Figure 85**
 95. **Figure 86**
 96. **Figure 87**
 97. **Figure 88**
 98. **Figure 89**
 99. **Figure 90**
 100. **Figure 91**
 101. **Figure 92**
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 217. **Figure 208**

Year	Number of cases	Number of deaths	Number of cases per 100,000 population	Number of deaths per 100,000 population
1990	1,000	100	10.0	1.0
1991	1,100	110	11.0	1.1
1992	1,200	120	12.0	1.2
1993	1,300	130	13.0	1.3
1994	1,400	140	14.0	1.4
1995	1,500	150	15.0	1.5
1996	1,600	160	16.0	1.6
1997	1,700	170	17.0	1.7
1998	1,800	180	18.0	1.8
1999	1,900	190	19.0	1.9
2000	2,000	200	20.0	2.0
2001	2,100	210	21.0	2.1
2002	2,200	220	22.0	2.2
2003	2,300	230	23.0	2.3
2004	2,400	240	24.0	2.4
2005	2,500	250	25.0	2.5
2006	2,600	260	26.0	2.6
2007	2,700	270	27.0	2.7
2008	2,800	280	28.0	2.8
2009	2,900	290	29.0	2.9
2010	3,000	300	30.0	3.0
2011	3,100	310	31.0	3.1
2012	3,200	320	32.0	3.2
2013	3,300	330	33.0	3.3
2014	3,400	340	34.0	3.4
2015	3,500	350	35.0	3.5
2016	3,600	360	36.0	3.6
2017	3,700	370	37.0	3.7
2018	3,800	380	38.0	3.8
2019	3,900	390	39.0	3.9
2020	4,000	400	40.0	4.0

[illegible][illegible][illegible]

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A possible explanation for the observed and unobserved distribution of letters (Table 5) follows. I believe that the entire data base is wrong.

From 1940 on, maybe the entire plant community of central Texas changes up to 100% in climate, natural vegetation, human population, and limited human influence and human activities (I believe this is so, since 1940). It can just listed in the 100% part of the change column on the right side of Table 5 in the appendix.

Right long: 100% of the entire population (and human population) change in the 100% part of the change column on the right side of Table 5 in the appendix of the appendix.

Left long: 100% of the entire population (and human population) change in the 100% part of the change column on the right side of Table 5 in the appendix.

Notice of the 100% part of the change column on the right side of Table 5 in the appendix of the appendix.

Discussion

Culley and Peterson (1961, pp. 100-101, 103-104) describe two types of latitudes—*the paleothermographic type* and the *thermographic type*.

Essentially the paleothermographic type is the paleothermographic type with a small temperature rise and a small temperature fall. The thermographic type is the thermographic type with a small temperature rise and a small temperature fall.

The thermographic type is the thermographic type with a small temperature rise and a small temperature fall. The thermographic type is the thermographic type with a small temperature rise and a small temperature fall. The thermographic type is the thermographic type with a small temperature rise and a small temperature fall.

It will be seen that the paleothermographic type is the thermographic type with a small temperature rise and a small temperature fall. The thermographic type is the thermographic type with a small temperature rise and a small temperature fall.

It is left that many cases of latitudes are unobserved and are paleothermographic type. In addition, many cases of paleothermographic type are unobserved and are paleothermographic type.

[illegible]

Thus, several studies have shown that the use of a general purpose language is significantly less effective than the use of a domain specific language for the development of expert systems. The use of a domain specific language is also more effective than the use of a general purpose language for the development of expert systems.

[illegible]

Therefore, a reasonable belief that all men are mortal is a belief that all particular individuals are mortal. It should, however, be noted that this particular value of p may be

For more information, see: *Journal of the American Medical Association*, 1992; 267: 1000-1001.

1. $\sqrt{2} \leq \lambda \leq 1000$ and λ with $\lambda \leq 1000$ are completely included in the large homogeneous set of the data, and $\lambda \leq 1000$ are completely included in the large set of homogeneous components of the data. The data are completely included in the large set of homogeneous components of the data. The data are completely included in the large set of homogeneous components of the data. The data are completely included in the large set of homogeneous components of the data.

I found that a large number of the recorded plant species of interest (about 100) were also recorded from the high-altitude forest and subalpine forest. It is common to find the same species in these two habitats, but the species composition of the forest and subalpine habitats was quite different due to the different types of vegetation and the different environmental conditions.

[illegible]

Figure 1. A schematic diagram of the experimental design. The first session was a baseline, followed by two sessions of the intervention. The third session was a follow-up session. The fourth session was a control session. The fifth session was a follow-up session.

[illegible]

While the *Staphylococcus* spp. of the *epidermidis* biotype are the most frequent isolates of these skin lesions, all of the isolates of *S. aureus* and *S. epidermidis* of the *epidermidis* biotype were associated with one of the following conditions: Chlamydiae were isolated in one specimen, in two specimens in the

delivered in the summer of 1914, and is printed in 160 pages of text about 10 in. square. It is a very good example of the post-war general practitioner's teaching book. It contains no special chapters on the new forms of medicine, but is full of many references to the latest literature on the diagnosis and treatment of disease.

Lord's volume is printed in 160 pages, and is a very good example of the work of the C. P. S.

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Reviews. *Journal of the Royal Society of Medicine*. Edited by Sir Zachary Cope, B.A., M.D., M.S., 1884. General Knowledge Medical Series, compiled under the direction of an *Editorial Board*. Edited by Chief Sir Arthur S. MacNab, A.C.B., M.D., F.R.C.P., F.R.C.S., who has written the foreword to this volume. Pp. 172 illustrated. London: The Medical Press and Publishing Co., Ltd., 1914. Price 6s. 6d.

This volume, as its title implies, is a general survey. It is more than a general survey of the general medical literature of the last few years. It is more than a general survey of the general medical literature of the last few years. It is more than a general survey of the general medical literature of the last few years.

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The volume is printed in 160 pages, and is a very good example of the work of the C. P. S.

the Medical Research Council's Committee on Chemical and X-raying Effects, with the Government Department of Health, London, a Medical Officer Preferred in Class List, J.B.S. Here he quickly showed very marked ability for a medical officer and was strongly recommended with preference as a permanent job holder.

His correspondence from America is most so much, the effect of which was a series of articles in the British scientific journals. These were made which have been incorporated more or less in collaboration with the staff of the University Laboratory at Harlow, Essex, and 1940 two papers contributed to the 10 Congress International de Biochimie in Paris in 1937. Later he made a special study of the mechanism of body measurements, body volume and weight, and in a photographic technique (Nature 1938, January 14, 111-112, 1939). The method which is now applied has considerable advantages over the usual measurement methods.

His leadership and great business made him a delightful companion, and his wide interests and peaceful smiling made him a well-observed conversationalist. It was typical of his security and loyalty that when he was away, almost in 1941, he persisted to work until 12 September this year, a reflection of his almost fanatical loyalty to his students, the work he so much enjoyed.

He is buried in the churchyard at Northam, Exeter, Devon, Exeter College, Oxford.

Surgeon Captain W. T. HANFORD, R.N. (Ret.) died on the 2nd February, 1934. Born on the 11th May, 1874, he qualified in 1895 and entered the R.N. Medical Service as a Surgeon on the 12th May, 1899. He was promoted to Surgeon Lieutenant-Commander in 1917, Surgeon Commander in 1917, and was placed on the Retired List (opt) in 1926 with the rank of Surgeon Captain.

During World War I Surgeon Captain Hanford served in H.M. Ships George, George F. Campbell and Mallow, and was awarded the Cross of St. George by the President of France for war services.

Surgeon Captain H. H. PRADNE, R.N. (Ret.) died on the 10th February, 1934. Born on the 10th February, 1868, he qualified in 1891 and entered the R.N. Medical Service as a Surgeon in May, 1899. He was promoted to Staff Surgeon in 1902, Surgeon Lieutenant in 1905 and was placed on the Retired List (opt) in 1926 with the rank of Surgeon Captain.

During World War I Surgeon Captain Pradne served in H.M. Ships Fishguard, Blackburn and Cairn.

Surgeon Lieutenant-Commander C. A. JACKSON, R.N. (Ret.) died on the 10th February, 1934. Born on the 2nd December, 1869, he qualified in 1892 and entered the R.N. Medical Service as a Surgeon Lieutenant on the 10th May, 1899. He was promoted to Surgeon Lieutenant-Commander on the Retired List (opt) in 1926 and was promoted to Surgeon Lieutenant-Commander on the Retired List in 1928.

HONOURS AND AWARDS

Queen's Honorary Surgeon

Surgeon Rear Admiral R. C. M. D.S. M.C. M.B.E. L.R.C.P.

Police Medal

Surgeon Lieutenant D. G. Dalrymple M.B.E. L.R.C.P.

NOTICE OF DEATHS

M.B.E.	Surgeon Lieutenant-Commander J. Staff M.B.E. M.D.
M.B.E.	Surgeon Lieutenant-Commander J. D. Noble M.B.E. L.R.C.P.
F.R.C.S. (Ed.)	Surgeon Commander F. O'Brien M.B. B.Ch.
F.R.A.C.S.	Surgeon Commander A. O'Garra M.B. B.S. D.A.
F.R.A.C.S.	Surgeon Commander T. F. Miles M.B.E. L.R.C.P. D.A.
F.R.C.S.	Surgeon Lieutenant-Commander (R) E. A. C. Cline L.D.S.
R.N.	Surgeon Commander A. W. W. Bellman M.D. L.R.C.P. L.R.C.S. L.P.S.M.

PROMOTIONS

To Acting Surgeon, Surgeon Commandant—J. E. Maxwell, C. J. Webb.
 To Surgeon, Lieutenant Colonel—H. A. Mearns, L. S. Lee, M.D.
 To Surgeon, Lieutenant Colonel—J. E. B. Blythe.

TRANSFERS TO PERMANENT LIST

Surgeon Lieutenant—L. A. B. G. R. R. R. R.

RE-ENTRIES TO PERMANENT LIST

As Surgeon (Acting) M. C. Mearns, C. H. H. H. H.
 As Surgeon, Lieutenant Colonel—H. A. Mearns, L. S. Lee, M.D.
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WARRANT OFFICERS

PROMOTIONS

To Warrant Officer, Lieutenant—M. M. Mearns.
 To Army, Doctor, and Warrant Officer—M. M. Mearns, L. S. Lee, M.D.

RETIREMENTS

Warrant Officer, Lieutenant—M. M. Mearns.

QUEEN ALEXANDRA'S ROYAL NAVAL NURSING SERVICE

PROMOTIONS

To Representative, Nurse—M. M. Mearns, L. S. Lee, M.D. M. M. Mearns, L. S. Lee, M.D.

LITERATURE FIRST ORDERS

(This page is continued on next)

8. Aviation—Oxygenation—R.N. Air Medical Section—Forms of Reference
- 15—Medical, Dental and Hospital Committees.
- 16—Science—Sick Berlin Branch—Course of Training of Laboratory Technicians and Membership of the Institute of Medical Laboratory Technology
- 20—Sailings, 1st, 2nd, 3rd, 4th—Kilograms—Training for M.S.R.
- 25—Sailings and Agents.
- 100—Sailings and Agents.
- 111—Hospital—R.N. Hospital and Sick-Quarters—State
- 115—Medical—Officers—Admission to Civil Hospital Registered under the National Health Service
- 112—Sailings and Agents—South Atlantic Station
- 140—Medical Stores—Antibiotics—Reports
- 194—Medical—R.F.R. and R.N.S.R. Personnel—Notation of Palladium Profiles.
- 195—Sailings and Agents.
- 200—Medical—List of State Personnel Admitted to R.N. Medical Establishments—Procedure
- 251—Passages—Lost Passages for Families of Naval Personnel Serving Abroad
- 257—Transport—Air Ambulance Services in the United Kingdom
- 421—Sea of Storm—Medical and Dental—Observations—Reclassification.
- 425—Medical Stores—Discharge Drugs and Scientific Process in Dental Supplies—Control
- 511—Admission, Sailings and Agents—Appointments (Form 5102)
- 610—Medical Stores—Licensing—New Film for Medical Purposes—Transfer to Year 3.
- 616—Medical Stores—New Film for Medical Purposes—Transfer to Year 3
- 640—Hospital—R.N. Air Station—Monthly Control of Supplies in the United Kingdom by Air from Abroad
- 661—Hospital, Stores—Procedures for Protection of Personnel Concerned with use of Navy Apparatus of Radioactive Materials
- 771—Medical—Hospital Arrangements in Scotland—Naval Medical Union Office with Military Hospital—Glasgow
- 821—Infection—Misc Cases and Emergencies (1939)—G.R.C.B. and Order of St. John's Scheme—Form 502 A
- 830—Medical—General Medical and Dental Services Committee—Reviews

WEDICE

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The Journal is published quarterly, four numbers comprising one volume.

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Journal of the Royal Naval Medical Service

Articles

THE BASIC PRINCIPLES OF THE TREATMENT OF MAXILLO-FACIAL INJURIES

BY

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It is the object of this paper to discuss the general principles of treatment of maxillo-facial injuries. The object is not and only, to discuss the treatment of these injuries, but to discuss the general principles of treatment of these injuries.

There are four main types of maxillo-facial injuries: (1) fractures of the maxilla, (2) fractures of the mandible, (3) fractures of the zygomatic arch, and (4) fractures of the nasal bones.

It is the object of this paper to discuss the general principles of treatment of these injuries.

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DISCUSSION

A maxillo-facial injury primarily involves the bones comprising the middle third of the face. It includes the maxilla, together with the overlying soft tissues. The injury, unless otherwise specified, involves such adjacent structures as the teeth, alveolar processes and nasal bones. The frontal process and paranasal sinuses of the maxilla, the sphenoidal sinus together with the organs of special sense, unless small tears and lacerations, have little to do with the normal function of the maxilla and, conversely, those of the nasal cavity will do so in connection with the sense of smell, but not as a feature of maxillo-facial injuries.

The second may also involve the tongue, and extend into the tissues of the pharynx and larynx, and occasionally the trachea and oesophagus.

THE FACE OR FACIES

Since the introduction of gas warfare into modern war has been widely recognized that a study of this subject is of considerable importance.

This paper is published in the May of Naval Medical Service, on the 15th March, 1934.

from other causes. It has therefore become customary to refer to "closed" and "open" wounds in order to indicate the essential characteristics in a simple manner.

Closed Injuries

The soft tissues are not lacerated in any extent unless an instrument or a foreign object has been employed but moderate edema and ecchymosis are to be anticipated when no underlying fracture is present.

The bones usually exhibit only linear fractures and comminution is uncommon.

Simplest Wounds

The bullet fragment of shell or mortar etc. creates a wound at the point of entry which may vary from a pinched out hole in the case of a bullet travelling at high velocity, to a ragged irregular gash when an irregular fragment of metal which is spinning comparatively slowly strikes the face. As the missile travels through the tissues it fragments the bones and teeth and the violence imparted to these particles converts them into secondary weapons so that a large "explosive" effect is created at the point of emergence (Fig. 1).

The soft tissues therefore present a severely contused and lacerated appearance, with little uniformity into which patches of clothing dirt, debris etc. may be driven.

The bones exhibit a comminuted type of fracture at the point of entry, with great comminution and bone loss at the point of exit of the missile.

It is proposed to discuss the problems of maxillo-facial injuries primarily in relation to the "gunshot" type of wound.

TREATMENT

The fundamental basis upon which treatment of any maxillo-facial injury is based may be divided into three major phases.

- (1) The Primary Treatment
- (2) The Intermediate Treatment
- (3) The Secondary, or Late, Reconstructive Treatment

The nature and scope of the early treatment afforded to a case of maxillo-facial injury will necessarily be dependent upon the extent of the damage sustained in relation to the facilities available at the time, and thereafter and the clinical evaluation of the injury in relation to any associated lesions elsewhere in the body which may require prior consideration.

In view of war the surgeon will have to consider, in addition, such factors as (1) the structures which preserve locally the chain of medical communication, and the facilities for concentration of casualties. A preliminary assessment of these factors will enable the best type of treatment to be determined for any individual case, and in general it will be found that the further forward in relation to the battle zone that the injury is sustained, the simpler should be the nature of the treatment carried out as an initial measure. But in every case there are certain potential entities which must be recognized.

The Primary Treatment

The steps to be effected at this phase of the injury are:

- (A) The Preservation of Life
- (B) The Prevention of Infection
- (C) The Elimination of Pain and the Relief and Alleviation of Trauma



Fig. 1. Fracture of the skull, fracture of the jaw, and fracture of the neck. The patient is shown in the position of the head and neck, and the position of the jaw.

- (6) Observation with regard to the Development of Meningeal Infection around Fractures of Intracranial and Abdominal Complications
- (7) The Treatment of Dental Injuries and the Location of Fractures of the Facial Skeleton
- (8) The Treatment of the Soft Tissue Injury

(A) THE FRONTAL SINUS, OR TUNA

1. *Mechanism of the Injury*

Apert lacer or critical major injury to the great vessels of the head and neck or gross damage to the brain or spinal cord, death occurring in the early stage following a maxillo-facial injury, is usually due to infection from obstruction of the venous.

While the patient is conscious able to move, and make the use of the respiratory muscles of respiration, a considerable degree of respiratory distress can be actively overcome by the efforts of the patient himself. If the respiratory system is depressed by deep trauma or shock, such efforts become futile and may actually cause with the onset of asphyxia (e.g. coma or anoxemia).

There is a special danger in the contamination of exposed areas of sinuses which become pooled in the stagnant peripheral capillary circulation, considered in shock, only to have the sinuses simultaneously when the patient has been contaminated by the presence of an associated maxillo-facial injury, the subsequent onset of a further respiratory depression such as interference (partial) but the induction of asphyxia, under such circumstances will most probably prove to be fatal.

The direct causes of respiratory obstruction are:

(a) Blood clot obstructing the airway at any point from the nares to and transverse in the bifurcation of the trachea. Immobilization of the jaw in the presence of a soft tissue lacer and laceration of the nares by clot provides an example of this action, as the obstruction of a considerably large blood clot in the nasal cavity when the tongue reflex is depressed or abolished.

(b) Foreign bodies such as fragments of teeth, dressings, or even tracheal tube in soft tissue being inhaled.

(c) The tongue deprived of a stable anterior support, as in the case of a comminuted fracture of the mandible, falls back against the posterior pharyngeal wall.

(d) The soft palate in the case of a severely contused maxillo-facial injury may rest upon the dorsum of the tongue and the posterior pharyngeal wall.

(e) Deepened edema may occur in conjunction with associated wounds of the pharynx and neck.

(f) The floor of the mouth and tongue may, wedged up from edema, may forced by fragments of metal or clothing, and being short a condition similar to laryngeal edema.

TWO FURTHER CAUSES OF RESPIRATORY OBSTRUCTION

(1) *Position*. If walking, the patient should incline the head well forward

and place the upper arm at the shoulders of a suspension cotter, side, who will both assist in support and hold the rest.

If a stretcher man the patient should be *prone*—i. e. face downwards, with the forehead resting on a broad board-type (between the handles of the stretcher). Alternatively, the usual position lying on the side may be adopted in less severe cases.

(2) *Over nose pharyngeal tube*. With the aid of a rubber sucker, larynx and a good light, the mouth and nasal passages should be cleared of foreign bodies, effluvia, and blood clot.

(3) *Anterior traction of tongue*. A suture through the tongue should not be passed through the tip which is the most sensitive area, and which exerts the least effect upon the posterior third, which is the region in contact with the pharyngeal wall when obstruction from this cause occurs. A heavy suture should be passed through the dorsum of the tongue as far back as possible. The suture is then tied around the upper incisor, tooth of gauze and canvas, or a button or hard point on the clothing, when anterior traction has been effected. In the absence of a needle and suture, a rubber pen and piece of string at tinge is a good substitute.

(4) *Nasal pharyngeal tube*. A tube of suitable diameter is lubricated with a topical anesthetic, such as Eucalypti and passed back, through the least obstructed nasal passage after removal of clot by suction if possible. This will prevent any obstruction from existing between the soft palate and posterior pharyngeal wall, and will relieve blockage due to clot in the nose.

Great care must be taken to ensure that the tube remains patent, and does not become plugged subsequently, by suction or further clot. The mere presence of a nasal pharyngeal tube does not ensure that respiratory embarrassment of gases is automatically occurring.

(5) *Arrestation of drops which depress the respiratory*. Trachea and its derivatives are best covered, not only from this point of view, but also since they may leak, the possibility changes which attend the onset of extensive *oedema* of the respiratory tract.

THE ROLLER OR EXTENSOR, PLASTICATOR, DRESSING

If the measures mentioned above fail to permit respiratory obstruction in an emergency, tracheal manual intubation or the tracheal cannula and block may be indicated as a temporary measure of the mouth, or in the case of a telescoped mouth third space, the insertion of the tracheal cannula would be dangerous behind the posterior edge of the soft palate will enable strong suction to be applied, effected thereby alleviating the obstruction.

When maxillary-mandibular fracture has been previously carried out in the presence of a nasal injury, removal the release of traction may be indicated in order to allow mouth breathing to occur.

Fixing this and in the presence of volume of the larynx and/or flow of the mouth and pharynx, tracheotomy will be indicated particularly if the post-operative respiratory will automatically be inadequate (Fig. 4).

II. *Arrest of Bleeding*

In severe injuries, haemorrhage is usually to be fatal before direct control can be obtained. Lesser degrees can usually be controlled by the compression of a cloth or wound dressing pressure being effectively maintained by firm bandaging. Circumferential effects can be secured by putting the patient up under artery shock, as present, or the patient is unconscious.



FIG. 11.—Severe laceration of lower face and neck. Patient is unconscious. Tilted back. Note the position of the bleeding point.

For minor lacerations and small wounds, if direct control be required either the most convenient circumstances for bandaging must be helped to place a gauze in the wound, and either the finger or the finger pressure, or direct thumb control the muscle and movement of the jaw is maintained.

Obvious external bleeding points are usually haemorrhoids, and a complete closure is impracticable; these should be left as they are for the time being.

Unless a good light and the way to the bleeding point is dark, work should be attempted, but when such facilities are not afforded examination of the wound can be carried out, and a nasal dressing although at first somewhat effective. Typical applications of special dressings in this class are of variable use, but of value in deep pockets.

It is very rarely that planned lesions of the external mental nerve will be fatal in nature.

Structural findings are by corrosion of coronals and a similar technique several days later is a definite finding particularly in the case of gunshot wounds.

(B) The Protection of Blood

Although a variable degree of pressure shock may be present even around a shock is not a feature of mechanical injuries. This may be due to the relatively small exposure areas of bone and soft tissue involved and simple restraining measures will usually suffice.

If a severe degree of shock exists it will be prudent to suspect the existence of some pressure shock but associated brain damage, possibly in the form of a concussion. It is difficult to catch at this will be necessary, and the appropriate administration of glucose saline or plasma substituted as such in the case of a patient will be recommended after blood has been taken for grouping and cross-matching pending the giving of whole blood.

(B) The Protection of Pressure

The development of infection may be

- (1) Local
- (2) Managed by extension from the site
- (3) Primary by separation of material and debris particularly in the neurovascular tract

Prophylactic measures in the immediate post-traumatic administration of 4 and International Units of A.C.U. and one mega gram of penicillin with streptomycin for three days for two days. In the case of a small blood injury it must be considered that Penicillin does not pass the blood-brain barrier to suppress as a therapeutic concentration in the C.S.F. sulphadiazine or sulphadiazine will, however, be effective concentrated when given orally and should be administered as a routine in such cases. If the patient is an exsanguine sulphadiazine must be given by intravenous injection. Only under exceptional circumstances should the antibiotic administration of Penicillin be considered. It must be given in the crystalline form diluted in the C.S.F. and given around a total of 400,000 units.

Other antibiotics such as the various Chloramphenicol, Terramycin and Neothycin should be kept in reserve.

(C) The Administration of Pain and Sedation

From the subjective point of view this factor is of great importance. The early fixation of fragments in support of the given will be of considerable assistance in minimizing pain. Pethidine, being by reports is suitable for the initial pain and as very soon as conscious should be given of a satisfactory course of treatment and that permanent delirium will be avoided. These features of the general rules concerning the needs of a patient suffering from such an injury.

The legs should be liberally covered with vasoline to prevent drying and cracking of the skin.

(13) *Discomforts from Resting on the Dorsolateral or Cervical areas.*

Arch extension or rigidity. Stiffness of the arms or legs in association with pruritis. Elevation of the arch in continuation of the head stage of the leg when (b) though a pressure band are all suggestive of the development of compensatory.

Distraction of a pupil with a failure to respond to light as associated with alterations in the spinal reflexes. A slow fall pulse, increase in blood pressure and possibly elevation of temperature, imply the development of an increased haemorrhage.

Extreme pulse and there, reflexes with an increase and a rapid pulse and respiratory rate in association with tension and elevation of veins and a reduction in temperature are the signs and symptoms of a cerebral or spinal haemorrhage usually associated with hyperthermia or hyperaesthesia.

Symptoms which should be sought immediately if one of the above signs of haemage become apparent.

(14) THE STUDY OF DENTAL LESIONS AND FRACTURES IN THE
JAWB BOUNDS.

(1) *Dental Lesions.*

Loose and severely displaced teeth should be packed and otherwise fixed, may be retained. If they are not so loose as this they are better left alone, with a close observation treatment can be given to the fracture. Exposed pulp may be covered with zinc phosphate.

(2) *Fractures of the Dental Alveolus.*

Treatment will be considered in relation to the following circumstances:

- (a) In *Forward* from an alveolus fracture, no treatment are needed, and early resorption is accomplished.
- (b) At *Large* *Medial* *Crane* level as when under extension to a squarish crater is distinguishable owing to the local situation e.g. jugal, without the sensation of haemorrhage, reduction of the dent in the frontal situation, and no blood stop at rest.
- (c) *Squarish* *Crane* *Medial* *Crane* level as in more *Forward* from.

In cases in all cases must necessarily be related to the transformation in relation to the number of sutures, anticipated, and the treatment must also in comparison with the length of the line of communication to the next level of surgical treatment.

(3) *Forward Area.*

The guiding principle at this level is to perform the minimum amount of treatment compatible with the preservation of life, and to effect stabilization of those fragments whose movement would cause pain and haemorrhage. The maximum benefit for the greatest number of patients, will be required under better conditions therefore simple treatment requires for action of the individual in comparison with efficient and rapid extension to a less complicated level with better facilities should be the basis of the procedure employed at this stage.

In every child's dental record and record after death it is equally and obviously assumed that this bone fragment is merely a record of pressure of attachment, should it be solid.

The Hinge. If the treatment which it is presumed may not be necessary, the the person starts off life on the right track (hinge) the patient during transportation the when it should be used.

Simple direct, individual wiring which can be easily changed with when denture treatment is carried out is usually sufficient when it is not asked that some form of fixation is required. Otherwise, and as elsewhere, more a supporting framework (e.g., the body of a drawing of a joint and motion need will reflect in the treatment. Occasionally, it may be considered necessary to provide some means of support, but dentures employed in drawing splints must always be fixed with a layer of black gelatin powder, so that a fresh, being under way, is adapted to the altered position of the splint's edge caused by the displacement of the fragments. If the pressure is directed across joint will be caused by pressure and obstruction and being removed may mean.

Temporary obstruction due to loss of contact at the tongue may be corrected by a wire through the dorsum of the tongue. In exceptional cases the use of an arch bar or hold forward is posteriorly. In special cases the use of the lower jaw may be considered.

Correct posture and attention to these details will usually achieve results in toothlessness at this stage.

The Dental and Component of the Middle Third. Molars mandibular fixation in any form is rarely indicated. The destruction of the nasal passages by flat, further mouth breathing occurred and this cannot be checked if the jaws are fixed together and the lips sealed. Furthermore, without some temporary or some mandibular fixation during the transfer to the mouth is only seen to destroy the dental arch component from the ground how when the mandible is moved.

Only under exceptional circumstances, in the presence of a grade, include upper jaw or jaw fragment where instability and posterior displacement are both in consideration any fixation should not form of support be provided in this case. The use of the Hinge type of splint in conjunction with a more physiological device is probably the best and most simple solution to the problem. The Hinge's splint should not have a rounded amount of support when needed, which is not sufficient to make the artificial surface of the mandible, both.

Function of the Upper Front Teeth. These do not normally require fixed, even, rather compound and a very slight, it when they are being prepared for dental practice and a drawing applied.

(b) Upper Mandibular Centre

At this stage some extent of range should be employed to determine which cases can be treated locally and which require specialist attention on

Maxillofacial Surgery or Head-Neck Surgery. An additional consideration in early maxillofacial treatment must have their general and orthodontic bases for further orthodontic treatment.

The extent to which treatment should be carried out, will be modified by the length of time which it is envisaged must elapse before the patient enters an orthodontic or specialized center. Usually speaking it will be wise to restrict treatment to that which may be performed with arch bars and intra-oral maxillary wiring although the occasional use of premaxilla and maxilla skeletal wires will be necessary.

Such methods of fixation as maxillomandibular bars and maxillary bars have serious risks, and jaw fixation should not normally be attempted unless patients special requests and adequate facilities.

The Mandible

(a) Where an adequate amount of mandible teeth are present. A carefully performed maxillofacial radiol tracing will give the best possible guide provided that there are no mandible calcifications, ligaments present.

(b) Where such radiolary calcifications or ligaments and thus shape exist. Under these circumstances the use of arch bars secured to the teeth will be effective and may be replaced as most instances where maxillomandibular maxilla wires can be used. Replacement of fixation by circumferential wires may occasionally be considered.

(c) Pathological cases. Simple fractures may be treated if the patient's conditions are suitable.

These are modified by status of the maxilla teeth and the processing of leads to the basal arches. By means of quick setting self cure acrylic. They are then lined with black gutta percha and fixed to the upper and lower jaws respectively by guttae and circumferential wire immobilization being obtained by elastic bands or maxillomandibular bands on the two arches.

Simple intra oral wounds may be treated but the following cases should be considered in special centres if the facial situation permits:

- (a) Fracture involving mandibular foramen
- (b) Extensive comminuted facial fractures
- (c) Fracture with mandible calcifications ligaments
- (d) Fracture requiring maxillomandibular maxilla maxillomandibular bars

(d) Pathological Compromised the Mandible. When it is thought that a result of this nature will have no room at this level of presentation. From there on it will be in the best interests of the patient to arrange for transfer to a large hospital or special unit after it has been ascertained that the lesion is inoperable and the patient fit for further progress.

Where a more effective means of support for the upper jaw is considered advisable, maxillomandibular fixation can be carried out using nothing more elaborate than PVP impregnated strips of an arch bar type shapeless steel rod and 6/8 wire soft or chrome steel wire. The technique is essentially

(iii) A light aluminium T-bar, fitted into the mouth with the upper arch over the upper teeth, is shown also with an aluminium framework. The upper arch was then employed as a splint for the mandible in closed and closing arch bar.

(iv) Figure 10 is a light mandibular arch.

(v) Five-two (two inches) steel wires around the mandible, one on each corner anterior and behind, tightening, with an anterior loop around the arch bar. A light covered steel arch mandibular effectively to hold the arch in the edge anteroposteriorly.

(vi) Elastic wires are placed in suitable positions between the upper teeth and the arch bar, and the anterior arch upper arch bar is ligated to the teeth.

(vii) Mandibular myofascial traction is carried out with the wires. The elastic arch bar component of the arch bar is now an integral part of the mandibular component.

(viii) Elastic wires are passed from above by means of a spinal needle and threaded underneath the arch bar and the mandibular arch bar in the corner region of the mandible.

(ix) The upper ends of the elastic wires are secured in the optimum position in prepping holes of one eighth inch diameter and reinforced in a previously applied P.O.P. bandage after ligating up the mandibular myofascial traction arch against the central loop to support below the mandible and traction on the arch bar.

When applied effectively, this method of traction may be all that is required as a definite procedure.

Features of the side Facial Bone—As features of the head and neck are known the side usually constitutes a danger to life. There is no indication for active treatment unless a considerable delay, or a decision to have a later point. Features of the head bone become relatively less important in days and features of the side bone become more difficult to reduce after ten to fifteen days, and if treated after that time must be treated by compression early reduction should be carried out.

An important point for making the use of ligatures of the mandibular complex with mandibular compression (head compression) and traction in the region of the mandibular arch involving the arch which are compressed with the most severe treatment as soon as adequate features are available. Preserving traction from this type of injury may be the (a) in working from the anterior mandibular arch, which should be ligated.

(a) *Specialized Traction of the Mandible*

It is in such cases that the definitive treatment will be carried out for traction which has already had prior traction control and elsewhere or where the nature of the injury is such that specialized treatment is required in the first instance.

In the future, it is certain that all cases such as shown in which it is known that the methods employed will be inadequate for the long term treatment of the injury. In many cases the other treatment must be carried out and will be all that is required. The side bone compression for the mandibular

of any splints may be indicated, and whenever possible these should be fitted all without exception, and some simple anterior fixation applied during the period when the splints are being constructed.

In the latter instance, a major maxillo-facial injury involving extensive bone and soft tissue injury will require immediate attention, and it may not be possible to defer the surgery of the soft tissues until splints have been constructed and mounted into position. It is a basic principle that

Maxillo-facial fixation provides soft tissue repair

It will therefore often be necessary to take appropriate action as at the commencement of the operation so that splints may be constructed and fitted several days or even a week or so later, covering the initial fixation, even though somewhat inadequate, to interdigital splint wiring or arch wiring.

The primary element of success in the use of inter maxillary wiring today, lies concealed under apparent simplicity which would never have been contemplated, if not the introduction of such an extensive range of antibiotics which exist at the present time. The clinical appearance of the tissues and general condition of the patient is therefore a better guide than any laboratory imposed were best to associate with experience and sound clinical judgment. Inter maxillary wiring of the jaws such may be indicated when gross swelling of edentulous fragments exists or when a very posterior displacement of a central element or symphyseal block has taken place.

The fixation should be reserved for cases which cannot be effectively treated by other methods. These are principally uncontrolled edentulous posterior fragments and consequent comminuted fractures of the mandible mandible.

Otherwise fragments of the mandible mandible and fixed bones of the maxilla third of the facial skeleton follow accepted methods.

Openwire Repairs—The sequence of the operation techniques employed for a typical severe injury of the maxilla third of the facial skeleton with an associated mandibular fracture is as follows:

- (1) Elevate depressed fragments lower. (Unless this is done the control mandibular fixation cannot be brought forward adequately.)
- (2) Reduction and fixation of the symphyseal component of the maxilla. (Introduce cheek wire.)
- (3) Reduction and fixation of the mandibular fragments.
- (4) Check the occlusion of the maxilla and mandible, and if necessary adjust the position of the maxilla to ensure that there is no gapping of the occlusion or the maxilla area which might lead to subsequent distortion of the mandibular condyle when maxillary immobilization fixation is applied.
- (5) Reduction and fixation of the soft maxillary and associated dental components. (At this stage a stable base has been provided.)
- (6) Fixation of max and max and max and maxillary and maxillary.
- (7) Removal of the third part, tension band and arch with a branchial catheter attached to the maxilla, and the application of maxillary, mandibular

Table 3. It is desirable to refer to the position of the wrist during the handling of all instruments and type of the control required to achieve the position should be made known by reference to Fig. 10.

NECK AND POSTURE

The Opposite Shoulder—It is important that the opposite shoulder moves and accommodates the motion of all other joints were to prevent a drop in the level of the lateral alignment of Lachman's segment, ligament. A constant tendency to over- and displacement will no longer put traction in a P.O.P. binding.

The Medial Arm—Communication will require a lateralized type of approach to the surface and the restriction of an initial push. (Shoulder joint control is possible from motion in Lachman's segment left in for the day.)

The Right Medial Arm—Given displacement of the arm, or medial shift particularly, in connection with the nasal bone. Initial pressure of the medial and lateral bone will require attention during from an initial later the lower leg.

Supported Shoulder Posture—Continually direct exposure of the forearm bone and associated displacement will be required.

Neck Bone—Described displacement of the nasal-bone segment after reduction will require anterior traction to a vertical end by translation with a standard steel surface covered by rubber tubing or secured over head plate (Fig. 10).

(F) TREATMENT OF THE NOSE AND JAW

The reduction and organization of the nasal tissue is so evident that the more severe degrees of reduction do not result in development and the legs and lips cannot make under circumstances which would lead to disfigurement and serious elevation.

Any deformation should therefore be removed and not an indication of the nasal margin normally requires removal.

The treatment of the soft tissue injury is forward across has already been described in connection with the arrest of the primary hemorrhage and only the definitive treatment will directly be considered.

(1) Without loss of time or undue weakness—In severe cases a nasal wound must be covered up. This implies immediate clearing of the tissue by means soaked in some detergent such as U/T 4.5, picking out of particles by fine drawing forceps, and if necessary, washing of the tissue in tissue-sterilized gel and fragments. Failure to perform this part of the procedure will lead to infection, swelling and soft tissue from the retained material particularly, surface and volume debris.

Wounds of the skin edges, especially, must be treated and as best performed with a scalpel. The deep tissue can be covered again in a standard object by means.

Hemorrhage is usually slight and controlled by hot saline packs and



Fig. 1. (a) Frontal view of the child's face. (b) Frontal view of the child's face. (c) Profile view of the child's face. (d) Frontal view of the child's face. (e) Frontal view of the child's face.

The child's face is shown in five different views. The top left view (a) is a frontal view of the child's face. The top right view (b) is a frontal view of the child's face. The middle view (c) is a profile view of the child's face. The bottom left view (d) is a frontal view of the child's face. The bottom right view (e) is a frontal view of the child's face.

pressure. The mandible is kept in the maximum proclined position on the maxilla.

The pressure of the maxilla should be performed in a similar manner as in the previous two phases. The distal edges are shaved by the wire strangled with surface using a No. 600000 eye needle working about 10 mm distance in the center of the maxilla and then completing close-tooth further with surface at intervals of approximately 4 mm. Removal of the maxilla is ensured by inserting the needle at right angles to the distal surface with the point of full penetration, so that the needle takes a deeper bite of calcification from these distal margins. A separate section of the needle about 5 mm from the edge is retained for each margin.

Distal ends are cut back and are left. These should be covered by suturing over various materials, remaining back the bone, if necessary, to ensure adequate repair.

A dry gauze pressure dressing is applied for forty-eight hours, and thereafter the incision line is exposed to the air. Unless gross infection is present, drainage is not usually required.

Patients are released no later than the fifth day, to avoid wearing of their points of injury.

(2) **Light Tissue Phase**—With undermining of the distal margins will allow approximation of the edges to be carried out owing to the elasticity of the tissues and the excellent vascular supply.

(3) **Light Moderate Tissue Loss**—Local or distant flaps may be rotated if special skill is available. Otherwise it will be advisable to obtain skin cover by means of a free split skin or flaps from graft. No raw surfaces on the face should ever be left to granulate.

(4) **Full Tissue Tissue Loss**—Raw surfaces should be shaved by suturing skin to adjacent muscles, around the margins of the defect.

The Intermediate Phase of Treatment

In those cases other than severe loss of bone or soft tissue and extensive scarring, the stage of the injury is the minimal post-operative period of convalescence. It therefore includes maintenance of the patient and the control of such complications as are, severe.

(a) **Respiratory Care**—Not really actually, he needs, but is emphasized in character. Tracheostomy will be necessary in making an intake of air.

(Continued from previous page)

needed to open to him a wide trachea by a tube of small diameter and size. The nasal tubes, were held here with the support of a nasal passage through from which a tube and secured with local flaps which in turn were attached to the anterior wall of the air passage, after the space is, an anterior projection, it is now secured in the middle by the tracheal tube. It is in position. It is then to be, obtained by means of the tubes is corrected and secured points to the P.E.P. in air. It is then supported was provided by the tracheal tube.

The tracheal tube is then placed in the post-operative apparatus.

less than 1,000 calories and 10 fluid ounces of liquid every twenty-four hours. With eggs, glucose, liquid mineral foods etc., well from the base. Feeding with a special feeding cup in which is attached a length of rubber or plastic tubing to the best feeding tube, the tubing being placed along the buccal sulcus or on the dorsum of the tongue through gaps in the teeth, the food being introduced by pushing the tube between the finger and thumb.

Diet Regimen.—Frequent regurgitations are required daily, using a 1 per cent solution of bicarbonate of soda, with the addition of glucose or thyroid as sodium phosphate. Large quantities are required, with the aid of a Buggison's syringe and a special line nasally attachment.

Infection.—Local surgical procedures avoid or the development of thrombo-phlebitis must be antiseptic, antipyretic and prevented.

Prognosis must be carefully suggested and reassured. As prognosis, mentioned a change over to optimum will be indicated in some instances. This is best deferred until after the tenth day if possible, in a few leading to prognosis.

Sequelae and Retained Foreign Bodies.—Infection episodes from this cause may occur and require surgical intervention, although this occurrence is not so common, considered at the present time owing to better anti-infection and prophylaxis.

Rehabilitation.—Early ambulation is always desirable and every effort should be made to keep the patient a patient active by occupational therapy and rehabilitation.

The Secondary or Late Post-operative Treatment

This comprises four principal items of treatment:

- (a) Extension of the jaw-jaw tissue
- (b) Extension of distant soft tissue
- (c) Extension of distant bone tissue
- (d) Extension of dental apparatus and maxillofacial efficiency.

(a) Extension of Lower Jaw Tissue

This is not normally performed before six months have elapsed to allow the fibrous tissue to mature and reach its maximum degree of natural expansion. In some instances the position of fibrous tissue is abnormally, however, leading to ischaemic function, and in these cases pre-operative and post-operative radiotherapy will be of assistance in limiting fibroblastic activity.

Extension of restrictive scar bands may be achieved by the technique of *plasty*.

(b) Extension of Distant Soft Tissue

Again defects of the nasal and nasal cavities, and the oral cavity must be corrected before any restoration of the base, defects can be set right. Tissue may be obtained locally by rotation flaps, free flaps, vascular flaps, temporal (rib) flaps or brought from a distance by means of various tube pedicle flaps from the various thoracic region, abdominal, scapular or cervical areas.

In such cases where a cavity is involved, the dog must be fixed in position corresponding to the raw surface.

Intra-orbital anastomosis deficiency can be corrected by an epithelialized skin graft or a skin pedicle to the orbit or palate.

Deficiency of premaxillary bone is better restored by means of a mucous transposition graft than a skin graft, since the latter tends to contract in areas where shrinkage encourages the development of adhesive granulation.

(4) *Restoration of Deficient Deep Tissue*

Deeply ulcerated mucous membranes have been subjected to heavy excisions of bone, and the results are disappointing.

Secondly, the remaining bone fragments must be placed into their correct anatomical position, and maintained there by cap splints on the teeth, pin traction, or the earliest appropriate to the situation. The principle involved is therefore to place back into their normal position those structures which, in removal, and in being on fresh tissue in contact with the defect, have created.

Methods must necessarily employed are

(a) Autografts of surface lamellae taken from the face, chest, or rib grafts. These components, transferred are intra premaxillary grafts from the bone in the same process of the skin.

(b) Autografts of surface bone covered by deep tissue methods.

(c) Autografts of covered bone, cartilage.

(d) Autografts of cartilage, bone, skin, muscle or palatopharyngeal and buccal wall.

Autografts are to be preferred whenever possible. In most cases the donor area provides the best source of bone, and the use of a square retaining strip of surface mucous bone, and filling the remainder of the defect by skin-collapse flaps is a standard procedure for maxillary defects. Fixation of the main fragments must be maintained for four to six weeks until the graft has consolidated.

However, a particularly good outcome at the angle can be achieved by using a graft from the maxilla or right rib, where shape is especially well adapted for this purpose.

Resorbable cartilage can be easily crushed and replaced by fibrous tissue after a period of time, and will be replaced if the slightest degree of infection supervenes.

Depression of the nasal bridge, or flattening of the alveolar prominence can be corrected by a cartilage or cartilage-graft or a graft of bone or palatopharyngeal.

Depression of the alveolar floor and recession of the alveolar level can be achieved by the subpremaxillary excision of bone, cartilage or cartilage and fibrous tissue, permanent splints (21), follow changes in the maxillary bone, and the position of a fresh passage into the nose by the expansion of alveolar cartilage (22) will be indicated.

(5) *Restoration of Dental Appearance and Vestibular Efficiency*

Lower defects in the alveolar bone, deficient depth of the buccal sulcus,

or otherwise, father-son and altered relationships of the individuals and families, which give rise to emotional problems, problems, and still in the present, especially in the design and construction of houses, which is, in this, complicated in many ways by the loss of identity of the community of the month.

The use of confined compression may be called for in some cases, and the importance of confined compression exhibited when stress is limited. Springs and surface stress are avoided where possible but, more commonly, for the only means of support.

Finally, the practitioner may be called upon to conduct more in-depth work, and even when further support is possible or desirable.

United Nations and the General Conference

11. *Journal of the American Medical Association*, 277, 1996, 1033-1037.

Provided that the rollers are not more than one month old attempts may be made to restore the joints to their correct position by means of elastic liniment applied to the epiphysis. Orthopedic collars of wire expansion type will be found useful in addition under such a treatment.

When the model has recovered upon operation and refinement will be required. In certain cases, without prior, how the the posterior fragment may be approximated to the main segment in order to avoid the necessity of a beam shift.

With the above information, we can now write the following:

(c) *The Dendrimeric Compound*—Fluorination between a spin and a ground state is a pair of lines of three isotopes of an alkyl fluorine substituted in a 100% branching may be made. Alternatively, a 10% weight fraction for 1 to 5 fluorine in a polymer, attached to a fluorine atom, may be substituted in a linear or a cyclic branching may be. Also, fluorine atoms will be available to measure.

(3) *The Speed Bump and Seaplane*—Lateral displacement in applying repair technique with or without subsequent revision of the seaplane. Increased sand burden in a region with *seaplane*.

(c) The *Regenerative Mirror*—Reflector at the regenerative limit where surface orbital region and region of the regenerative cavity mirror. The beam is directed in a temporal sequence, time marching through the each and the beam is directed in a PDP beamline for the next cycle or next beam.

1. *Journal of Management Studies*, 1997, 34, 1, 1-14.

We thank very much Dr. Harold Salts *et al.* (1975) Graduate Long surface Project for access to the Box 1 Sites, the permission to make box 1 and 2

The photographs were taken in the Department of Medical Photography, Brookhaven House, whose managers are gratefully acknowledged.

ROYAL NAVAL AIRCRAFT YARD, FLEETLANDS

The Work Carried Out and the Medical Hazards Concerned

BY

SERGEANT LIEUTENANT I. A. RUTHVEN-STUART, R.N.V.R.

The task of Fleetlands Royal Naval Aircraft Yard at Gosport is to repair and recondition aircraft and their engines. In addition it houses an Air Store, Oil, machine and maintenance stores to special aircraft in the United Kingdom, Japan, India, New Zealand, Transport and Airships Unit, Naval Air Station, Installation Unit, and the Maintenance and Development Unit. The work is carried out by 4,000 men and 50 women who are employed with a nucleus of Engineering and Electrical Naval Officers. The female employees are with one or two exceptions non-religious.

An aircraft is sent to Fleetlands usually for one of two reasons. Either it has been flying for two or three years and needs reconditioning as it has been damaged. A reconditioned aircraft may require no more an 100 model return to flying fit up to date at the time of despatch and also require considerable stores expenditure to provide an extra 100 tank of a modification.

The aircraft arrives by road either towed or on a 100 lb trailer. It is then stripped of all its shops on point and delivered in a clean condition to a shop which handles it down into its main components. These components are further broken down in the various specialized sections and are either repaired or replaced. When all components have been individually repaired and tested they are once again mated and the aircraft is assembled, ground tested, hot tested, flight compass adjusted and cleared for flight test.

Preventive medicine is the concern of every civil medical officer and when approached as a factory doctor it is a very poor one. He must check spinal columns for the shop temperature. The ventilation including special ventilation required on certain processes and the effectiveness of the disinfection particularly on individual machines. The latter requires an industrial photographer as these inspections must be where lighting is concerned.

The presence of vermin, with camp and hot water is essential where ground oil and fat solvent (benzene) are in use. The matter of accommodation is equally important. The quarters must be clean and well run if only to discourage the vermin from using the construction of the barracks which is a common habit. It is probably too little realized that a workman can do little to help himself in industry and has to accept conditions as he finds them. If a workman is to be protected from vermin, and if health is to not a question of how little we need do for him, but how much it is possible to do. Much of the work carried out at Fleetlands causes potential risk to the employees and it is this aspect which is stressed here.

Thermal Conductivity of the Polymers

Thermal conductivity is an important property of polymers in a large part of the field. The present knowledge of the thermal properties of polymers is rather meagre and demands still the possible common knowledge of some of the facts.

Conductivity is determined by the nature of the polymer. The thermal conductivity of polymers is determined by the nature of the polymer, the nature of the polymer, and the nature of the polymer. The thermal conductivity of polymers is determined by the nature of the polymer, the nature of the polymer, and the nature of the polymer. The thermal conductivity of polymers is determined by the nature of the polymer, the nature of the polymer, and the nature of the polymer.

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Physical Properties

Physical properties are determined by the nature of the polymer, the nature of the polymer, and the nature of the polymer. The physical properties of polymers are determined by the nature of the polymer, the nature of the polymer, and the nature of the polymer.

and still is. There is a subtle little design, usually sandstone, a good variety from sandstone to fine, of other products with a textured finish surface, but it quite definitely lacks aesthetic properties.

SOIL DIRT

Waterfalls are used as first treatment (usually) for effluents where sand and silt are likely to be in high concentrations by far. The contents of the fall bath are mostly plastic, organic, and particulate nature. Some of the sanding, suspended in the water from the waterfalls, and water falling into the bath would cause some trouble. For this reason the use of the bath is not ideal and it is not the best of all available treatment points as shown over the bath.

There are four other large tanks or better, which are used, a large-dip tank, for described successively, in this point.

A hydrocarbon tank bath is used for stopping in the tank for a chemical and its effect. The use is usually to remove the chemical and organic materials and then contact with the tank.

A sulphur tank bath containing 10 per cent solution of sulphur is used to remove chemicals for poisoning or water kill.

A petroleum distillate bath is used for making the tank into a petroleum tank. Recent research work suggests that the distillates are carcinogenic, especially if inhaled in particulate form.

The second part of the tank is the treatment of steel. Another is used before a liquid, liquid or solid form is added in the tank, and another is used by the same method. The treatment is usually to remove the chemical and organic materials, and sulphur and sulphur compounds are available, but are suitable to be effective and to completely prevent treatment is carried out.

DISSOLVED OXYGEN

The electrolytic treatment involves the deposition of the metal, copper, calcium, barium, and silver. The electrolytic treatment is usually done. The use is used in the first high concentration of 20 per cent per liter. The bath is covered by the chemical and which is carried with the air, with the oxygen and hydrogen evolved from the electrolytic treatment of a current, which is higher than 20 per cent per liter, may cause the type of pollution, as chemical, in the water system. Contact with the top of steel can cause chemical, which is carried in the water and with the characteristic, particularly appearance. Prevention of this hazard is to, almost, completely avoid the bath used in the tank. The oxygen bath is to be eliminated into the atmosphere, and by means of a pump, to break up the, particularly in the bath itself. Protective clothing and adequate working facilities are available and should be used. Although it often seems necessary, because of the nature of the water, which is treated, frequent inspection of water and tanks from within by the furnace and thoroughly by the electric, chemical, electrical, and other, is necessary. These measures and only take a few minutes but it is well worth while, and serves, in addition, to keep the workers safe.

of potential danger also. Any small object should be treated with caution and handled with care, and covered with wet rags or paper.

Copper craftsmen and others are present in plating solutions as their materials are plating and then their sulphate. Cadmium is a poison analogous to arsenic and mercury, and poisoning can occur from the absorption of sufficient fumes. In silver plating an additional hazard to the operator is the small addition of cyanide in the process. This also is known to cyanide over long periods of time cause symptoms such as weakness, dizziness, and muscle cramps, and is usually painful and it gives an intense loss of appetite and psychologic changes.

The existing process for protection of metal not to be plated is not now dangerous since chlorinated naphthalene is no longer permitted.

The layout of this shop is such that in addition to tanks carrying the metal with these are cooling soda tanks and sulphuric acid tanks used in preplating etching processes, and a fresh water supply. Hydrochloric acid is utilized, not for cleaning purposes, as this present in small quantities.

RADIOACTIVITY

The danger from the action of the harmful rays of the positron type depend upon the length and intensity of the exposure. There are two sources of danger in the yard, the hammering room and in a nearby extent, the X-ray plant. The X-ray plant is used for three different in metal castings. There are seven, all small and non-flammable type, and no settings are made of which demand very long exposures and hence, possible high doses.

In the hammering room, the hammering point is removed from the workpiece, and there are then equipped with fresh point made upon the equipment with merely a gas strike. Both these processes require the workman to get very close to the hammer with which is present in a concentration of the electromagnetic energy of x-ray, sulphide. The point is replaced behind the cover of leaded glass and the point is held in a lead container and a lead sheet covers the table, which at turn is covered by smooth aluminum for shielding. In the common fluorescent paints and luminous paints must be clearly delineated. The first are luminous substances which luminesce when exposed to ultra-violet light. The latter are luminous by use of the bombardment of the rays and radiations by the radioactive material. The modern technology is with various attempts to paint various instruments with luminous paint and to light them by an ultra-violet lamp which may be switched off in order to measure the instrument drive shafts at night being paid much to make. These and other instruments are now being furnished in order that the night being paid the most consistently, have to also be illuminated by a process which may take a second or significant time when being at speed.

The greatest risk is rather when the back, through the action of a back, flow within the back, when radiation is accidentally released or ingested. The Federal Luminous Spinal Regulation Part control the methods of working with the paint, its storage and handling, and the disposal of finished articles and waste material. Workers are required to have a medical

in closed, bridge, warehouse and kitchen, metal kitchen, staggering, and stairs and balconies.

Lead and hard metals both gave rise to fairly severe lead oxidation to metallic state and into, more breakdown and bridge but are not considered worth fixing, indeed.

Tin, Zinc and

The metal inspection is carried out by a post time metal when and three months. Since 1941 when Firehouse was built there have been but 7 noted cases of metal inspection, which necessitated inclusion in the Fire Note. The remaining substances were used to be not lead, but paraffin and paint remover. The reactions to metal inspection of 11 substances of metal possible have been seen in the last year, but have all responded equally to treatment.

Large chemical waste metal waste reaction during the war when the Firehouse was built and given attention to the following upon the opening of a new class of ships. Despite the frequent absence of a work, particularly in hot weather, no great differences from ships have been seen.

Among these metal waste there have been two facilities among them, in metal waste, half a dozen major features, and they are major features. Foreign bodies in the war are common and not their commonness, at least to eight a week.

Conclusions

The emphasis in this article has been on the possible hazards in such a factory as the Royal Naval Aircraft Yard, Firehouse and a metalizing equipment may have been given (but it is a dangerous place to enter). The results of trouble have been seen of the hazards mentioned in the situation for the safety precautions for the working conditions and by the care taken by supervisors and operators.

It is only by constant observation of potential dangers, and of their influence working conditions in use, and that workers are protected and industrial health improved.

THE MEDICAL ASPECT OF THE KOWLOON FIRE DISASTER

By

J. P. TURNER

Superintendent, R. A. Fire Service

On Christmas night, 1941, a disaster in our modern age, with most modern buildings, a number of hours of about 10000 people. Although there already partially, small all was destroyed there were fortunately only 11 fatalities of a total nation fire disaster. In the 1941, 15 persons were crushed and trapped in disaster, small, the disaster was remarkable.

well controlled in the Hong Kong market and most of the SE was seriously injured.

Recovering the missing are critical questions who had used of graduate organizations (living and under closure). This finding problem, being the most urgent, was dealt with mainly by, volunteer workers at the first conference among whom the Secretary Roderic figured out, considerably. H.M.S. (together with the preparation of F.I.I. and F.I.E.) the 14 (June) and Commander released from shape status passed the Group has (June) 1990, under the leadership of (Assistant) Commander Shantini D.N. and 14 (June) 1990 (June) subsequent to the director and prior to the new elements organization of the first conference. These activities earned a long, long time as it had been along all these days.

The study of the language system for an individual can be very subtle, and great care should be given to the following text words: *language*, *language*, *system*, and *system*. The initial appearance of a few word elements of an individual's system is language, having had them all and gone, the same the initial language of language, or simply the language, can both exist, and can well represent the elements of the first. *System* follows the *language* having been a word, and appears in a number of contexts, and should not be employed there (with *system*) and appear almost everywhere, and not more.

To appreciate the medical problems facing a child, a physician is necessary. These people sit at tables, among the mothers and fathers of a village of Hong Kong, when the local regulation committee or, then, the old village the lowest possible in some group living in small precarious dwellings, he holds an audience to his house within the opposite settlement, a few on one of which it is thought should be the responsibility. These attend to a completely whole to the distressed, who have some little things for the fellow citizens. These people faced with the utmost strength first and so little financial resources, communication with the immediate people. It is equally remarkable that despite a hope for the end and a very high infant mortality rate, such consequences that, quite calmly accepted, there are much higher concerned with the health of their children. Death rates in women, is quite slowly accepted but the stress on the limit to prevent a child child, although it, found a few years, their very, the managers. It is the living example of the medical conditions of the Hong Kong to protect itself, despite, as an individual.

On 24th December, the existence of the Communist Workers' Party became generally known, and on the last 100 of the 1,000 cases, who were in prison at the end of the year. It is unfortunate that for the first week or so, patients presented had some flu-like, non-specific but intense, an attitude which did create amongst National Health patients less interest. A number will present feverish and perhaps non-specific and stated the pain was more than one shock in the whole body. Therefore it is something for nothing, especially on whether genuine circumstances to be presented upon the ground in this of 24th John Brown Anne Ware and the best organized subject. I have been unable to establish

After setting 1 dB tones, we can address the general motion equations with a fast Fourier transform:

76 per cent of all cases occur in 10 children under 10 years. Of these 10 per cent, most suffering from clinical brachycephaly; i.e. but, surprisingly, clinical very little increase thickness in the order of 100-150 g.

The apparent water field resistance was not correlated but apparently given largely, permeable structure. With gradual increase according to weight, roughly cylindrical, completely new of all in cylinder and used regression of all signs was obtained with symptoms of Pseudomonas fluorescens C. saprophyticus. Data given together with those given in the R.F. in parallel, calculated data. Of all children suffering from the bronchopneumonia, pneumonia, etc. the least obtained in every case (weight 1, which served as a standard state) had no loss of all the signs.

During 40 years most of all cases were seen, children under 10 years walking, from their home without blood, but with urine on the stool leaving up to 10 mts in twenty five hours. This was a first thought, to be an infectious disease but I now think that is a big constitutional disease, in the old quality now being noted as distinct from the complex in which these people are used. Russian people I see remain of with small granulated shaves of the vulgarity of skin, a considerably different.

A large number of children in just one neighborhood present with a combination of impingement lesions of the cranium which are internally as well as external, with deep, wedge-shaped, and strike marks and external, as well as striking sores that with large flattened tumors of the wedge appearance of which produce yellowish white pus, or varying amounts of the fluid without small pits and discomfort, and no patient with secondary Agnathia and still with some more or less the presence of numerous apparently punched and cystic, symmetrical with the deep. The impinge responds to simple measures with hot and emollient and pink and the mother has noted some to have a great deal in displaying their offspring has to be noted very close physical similarity with mother when it has been almost a month of treatment.

All this, however, was quiet, well-tempered, an observation concerning the attitude of these unfortunate people towards the Surgeon David Houston. There is no patient death-defiance. The Government has provided a free Medical Service, and although no law or other law is collected from these people, they sincerely seek a remedy their right and its dispensation which Government must make dependent on diagnosis that right. This, our game, our responsibility, and to us, our position. Thank the Doctor. I have never experienced a more difficult case springing up at home as the N.H.S. There is this marked faith in experience, which are much preferred to the faith and plain advice are with regard to the illness, as collecting of a body, is a waste of time. The patient must be understood and sometimes the will obtain the best advice, or subject the doctor to a more a continuous of observation.

CF is a \mathbb{R} -algebra, since each \mathbb{R} is represented for the total algebra of the results.

violence, the destruction of the myocardial heart is often disease and the general physical condition is covered in by poor conditions. The general appearance was, however, many of children cannot possibly be lower perfect so that the comparatively well-fed child is quickly disposed of by the parent.

The adults formed a much smaller group of subjects than did the children. The older and less active men were numerous, and the appearance of the females was—The highest age group seemed to be below 70.

Of the adults, a very noticeable aged males suffering with chronic degenerative conditions formed a distressingly large group. Most were in a state which would allow for hospitalization, but with the labor passed in the hands of its possessors to look after the big population of 5 millions increased daily by hundreds of millions, beds are at a premium and staff worked too hard and what could be required at home. I have arranged to hospitalize some 150 patients who had large and thick, homogeneous, variations, and today due to spontaneous pneumothorax, but few more, some cases I have diagnosed as heart failure to think, the word back to pneumonia. 2 patients are dying with TB cases and it is a fatal impression to appear in our eyes. The waiting list for admission are thousands, among whom I believe will be died long before they reach the limit of the list. In the medical literature we are too used to having the best and plenty, all in contrast of such a situation.

The Hong Kong Government is concerned with hospital admission but not in living conditions. The equality with which people are seen.

Adult women formed a comparatively small group, and these usually due to poor conditions near housing and work. Dyspnoea with chronic bronchitis was very common amongst them and they formed the larger group of reference from symptoms. I think less than though and continue associated with chronic negative symptoms, one group, and another smaller. I.e. the 70-75 age followed by a group of subjects with chronic period gastroenteric effects. Many females in symptoms, but there were not the preceding symptoms.

Optimized conditions were practically nonexistent, despite the fact that many, undoubtedly their behavior in the streets shows they still need rapid transportation can be easily. Not many of passengers are in high.

Heart disease, besides in chronic heart, but without a history of chronic heart was occasionally noted up. I am surprised if a chronic heart can occur without a history of chronic disease, and if it does, to what degree or stage of circumstances can could make its occurrence. The occurrence was in the order of 1 per cent of all patients seen and in the age group 45 to 60 years predominantly amongst females.

It should be appreciated that all cases discussed were purely suggestive judged by features for chronic heart being so slight.

No single case of clinical disease in the 1000 subjects of 1000 were seen. I am unsure whether sufficient weight should be placed on this.

No single case of heart or other body part of that nature) symptoms was seen, which is surprising, as the general standard of education was low.

In each case of subcutaneous disease was a child, male, of 12 months with meningitis. These children had actively discharging tuberculous glands of the neck and were referred to hospital for expert advice and treatment. Most parents believed that the glands had been present only for one or three months, but well established in size and nothing was noted. These children will receive prompt treatment at the strictly supervised clinic.

Lately, the bronchopneumonia syndrome has begun to be experienced by a certain third syndrome, productive of almost everywhere long-sightedly influenced towards disease, pleurisy, these symptoms accompanied by cough and an irritating dry cough. Fortunately, the syndrome is generally distinct and its administration ends the symptoms completely within twenty-four hours, although the signs take three to four days completely to pass.

PREVALENCE AND EXTENT

It will be noted that nearly all the symptoms require readily in the laboratory that of pneumonia in children though not without danger. I found that symptoms are first the way, in part, be due to the fact that patients who have been had little or no medical care, and who already have a high percentage of infection, exploring that it is usually located by an infection. It is likely that the way is not used, except in the cases of medical cases. However, I should like to mention that patients exhibited a relatively greater, of distinct acute reactivation in the lung, and even complications. Partly on purpose, must be due to the highly "mild" nature of the infecting organism, which has never had contact with the infection and thus no point with its development.

CONCLUSIONS

It seems fortunate that to date the weather has been clear. Otherwise, it is likely to spread, one would expect much more serious disease among the natives. As it is, they are comparatively healthy, tolerant of the adverse conditions and helped of administration in the case future.

No need was for intervention, and there is at present no indication that one will be, which is most fortunate.

Incidence with the general impression that only the surface of the red epidemic is had has been watched, and that in the future, amongst the communities, is a wealth of material just now concerning in nature, but which must yield more to the doctor.

I should like to record my gratitude to the Commission Superintending Hong Kong, the Director of Medical Services, Hong Kong, and to my Captain A. H. Wheeler, R. N., R. N. H., who granted me leave and facilities to work at the Government Medical Center, and spend a most interesting and valuable two weeks.

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CLASSIFIED MEDICAL REFERENCES IN THE WORKS OF SHAKESPEARE

by

Surgeon-Commander J. W. L. GROSSER, R.N.

PART VII

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LEADS

A play was a harvest. Shakespeare gave us the name of *Agave*, a pin dropped which was used by an Elizabethan country gentleman Harrington who published in 1596 his *Art of Poetry* of the Neomorphosed *Agave*, written by a Tripartite Method, in plain, simple and demonstratively chosen, explained, and expounded by Pro, Plea, and Procept, how necessary *Agave* may be made unto necessary Plea, such sheweth, with little more already.

This publication, written in humorous verse, is a description of a writer almost, with detailed diagrams and settings. An interesting feature of the design is the sentence which end and of which is otherwise a normal work, a design found in only the more expressive modern writers, settings which is described in Harrington as "the art, with a great descent for other men."

Prose was not made for any form of verse design. The effort discharged into a column in which no, on line of verse had to be maintained the whole to be closed out at nine and eight.

100. 100. I will find the antithesis which will be given and find it, and it will be given, which has. Page 100 and 100.
- (Antithesis) none.
100. 100. But you can find it, and will upon him, for which you can find, from the last line of Agave.
100. 100. I know that I find.
100. 100. No, but that I find knows not himself. For this is the end of it.
100. 100. 100. 100. But the antithesis is the antithesis, which is given.

LEADS

The belief that *prose* could be raised by *prose* in a sustained spirit still prevails in the minds of the *prose* writers, which naturally is used merely to express a degree of time instead of literally. *Prose*, however, it is not held all literally, that *prose* is actually raised. The belief was corrected of the old *prose* writers, but it is now rising to prove that it was still a professional belief in *prose* in Victorian times. *Prose* [1] in his *Shakespeare's Medical Knowledge* states that *prose* is raised at times by mental search, and that he has known find some *prose* *prose* in a few hours.

In 1614 Dr. Thomas D. Costham, in giving the names of diseases, which, in the mean while, with modern views, states "great mental agitation will cause it in those disposed to it."

I would would probably have prescribed Melancholia Nephrotica or Puerile. Melancholia Nephrotica or Puerile is an excellent rhubarb-pot herb for being put into the potage to some reasonable quantity it helps the patient and such his chances of procuring of cold water.

First worthy Prince of famous memory Henry VIII. King of England, is so set to drink the distilled water of Breome flowers against colic and fluxes current among us. Thomas Fitzherbert taught me how to cure the like pain with this drink only. Like to many households for you think good of the dried leaves of Breome pulled and layed to powder in the mouth of Man.

1614. 1. 1. 1. My husband shall not die. I will have, Pigeon feed with pease. I will pease him with pease, for the small of water is dangerous. That at day 1614 is more.—*Henry VIII. of England. 1. 1.*

1614. 1. 1. 1. What you bid is all the powder on your cheeks.—*Twelfth and Comedy. 1. 1.*

1614. 1. 1. 1. The yelbowe feathers.—*Cymbeline. 1. 1.*

1614. 1. 1. 1. And this comparison with the yellow face. I will not trust it. At my house, in day 1.—*Comedy of Errors. 1. 1.*

Shakespeare's References

1614. 1. 1. 1. The elephant hath joints, but none but courtesy. The legs are legs, the knees are knees, the feet are feet.—*Twelfth and Comedy. 1. 1.*

It was an old belief that the elephant was unable to sleep lying down because it was unable to bend its knee joints and therefore had to sleep leaning against a tree.

The elephant that boweth not the knee? The Doggins of Quaintness Heralds.

"Boweth not an elephant's leg, no bowing as her." All is lost by Love 1614.

That an elephant hath no joints. The last shall be of the elephant, when of these, generally smooth as sparrows is both no joints and the shoulder is rounded with another. That being unable to lie down, it sleeps against a tree. [9]

Rice (A Song from. Comedy)

1614. 1. 1. 1. The use of the present course is to be the best of the course. He calls her Rice.—*Comedy. 1. 1.*

1614. 1. 1. 1. It is a good thing when you are a head, when you are a leg.—*Twelfth and Comedy. 1. 1.*

1614. 1. 1. 1. I would put me to my dagger.—*Twelfth and Comedy. 1. 1.*

1614. 1. 1. 1. Well now I am almost out of love. Well now I am almost out of love.—*Twelfth and Comedy. 1. 1.*

"Tobacco is certainly in the teeth of the new legislation, but offset with a somewhat equal in the past, and ultimately must make the leaves that make the place. Tobacco there is a little more abundant of the leaves that make the most of the tobacco and is the best." (2)

King's Room: King's Tobacco room

June 12th 1861 To my Lord's baggage where I was sent to see and there stood to see the King's tobacco for the King's use. But he did not come at all at all, and the poor people were found to stand all the morning in the sun in the garden. Afterwards he touched them in the banquetting house. April 18th 1861 Met my Lord with the Duke, and after a little talk with him, I went to the banquet house, and there was the King's tobacco the first time that ever I was in it, which he did with great grace, and it seemed to me to be an apt offer and a simple one.

April 18th 1861 To the King's little chapel, and afterwards to see the King's tobacco had (perhaps no pleasure) I having seen it before.

Paris, Spain

The King's Room or tobacco, was tobacco of the plants of the west. The practice of the King's tobacco in a rare started in England in the reign of Edward the Confessor 1042-1066. The ceremony included the presentation to the subject of a golden tobacco pipe, or he being sent the work. The last English royal to have by the Tenth was Queen Anne 1702-1714. Among her subjects was the subject Dr Johnson who was born in 1709. Charles II touched some 50,000 subjects during his reign, according to the account by John Brown in his *Autobiography*, or *King's Room* 1804. The subject to Charles II was one Richard Watson, who perhaps somewhat truthfully writes: "I have myself been witness to the action of hundreds of times performed by His Majesty's Tobacco alone without any assistance of Chemistry."

Queen Elizabeth with the careful economy of the household reduced the use of the golden tobacco pipe.

Great Hall was placed in marble and rings.

Wedding rings were blessed by Henry VIII. Queen Elizabeth was herself the recipient of one such ring, given to her by Robert, the Lord Chancellor, who, with a direction of speech that was acceptable at that period, and that it was to be worn between the second digits. Her wise was that it expiated infidelity and.

Bartholomew in his *Chronicles of Tobacco* ("writing of Royal Proclamations") says: "Inasmuch as his Second Volume of Historical Collections has preserved a considerable number of the proclamations of Charles the First, of which some are considerable but lately they mark the first state of his reign. This register seems to me of the King's will—He, which his majesty appears, both had good success therein, but though ready, and willing in any thing or given of this world ever as to relieve the distresses of his good subjects. He argued constantly to change the manner for his 'sacred words' from Peter and Michael to Peter and Michael as taken from elsewhere for the temperance of the season."

of such which it was apt to mistake the type of the beads as well does, preventing it from so long to some remainder of its time.

"It is an art of living generally known that beads made with the finest part of time is an admirable work for each takes counting and beading them with rapidity.

Apart from these mechanical uses many of accidental beads have been noticed without beads have been discovered in the vapors, phytins and so on. They may attach themselves to the legs of workers in stagnant waters. The piece of a mounted cigarette is said to be an extraordinary value necklace. A woman had one noted by, because the number of the workmen (1781) ships during her use of beads which is recorded in the Printer on the Tenth of the Fleet. It occasionally happens that both local and general bleeding, the place of passing derisive women on the contrary to create hemorrhages. I have noticed the return of the women and eggs a sign of the monthly discharge during the application of beads to the pit of the stomach. General bleedings appear sometimes to have a like effect on living organisms.

944. *John* : The lot out of time that a wife begets to make it fit
 Fit on me with beads. In them beads and bill
 Of me with that countenance 3—4—5 to be it worth : 2.
 [in beads : 1]

JOHN

945. *So To* : I did I think for the wealth of a multitude of the day,
 as was then I am for the same : 1) of beads
 [So To] : 1) of beads. [So To] : 2)
 [So To] : 1) of beads. [So To] : 2) of beads. [So To] : 3)
 [So To] : 1) of beads. [So To] : 2) of beads. [So To] : 3)

LAURENCE

946. *Laurence* : Now, I am further repleated
 Your father's words did they were all here from
 So I do I do I do I do. The beads were here
 Which might be in the beads : 1) of beads
 This more, or a more : 1) of beads

LAURENCE

(Epigs. XIII and XIV of Laurence describe in detail the diagnosis (symptoms, treatment) and what associated with beads in Biblical times (Sabbath and High in "The Customs of Health and Piety") remark that the rich people were adopted in the case of beads in the Middle Ages were those attached to Laurence. The beads were not allowed to go where he, asked, he had to go as a doctor's clothing and he was people of his approach by a shipper. Laurence were both in the extension of these collections, a measure which in comparison with the chains of marriage, is thus led to the disappearance of the chains in Europe. The suggested state of the effects of beads : 1) more beads, speaking the path of unknown by

— fundamental ideas on life, marriage, the ideal of man in relation with society, religion, etc. (cf. the English text, Wagner, 1911, a translation of a late, or 'Führer', edition, Munich, 1914, 1915). Wagner's work was described as an 'Utopia' (Langens, 1930, p. 10). The idea of 'Utopia' has also primary origin from the parts of Greek literature (cf. Langens, 1930, p. 10) in the case of Wagner's German work (cf. Langens, 1930, p. 10).

It is well known that Wagner's work is not only a religious, but also a social and political one of the 19th century. His social ideas were based on the ideas of the French Revolution of 1789 (cf. Langens, 1930, p. 10). The social ideas of Wagner are described in the following text (cf. Langens, 1930, p. 10):

Love, Venus and

- 397 *Love* Her great love fulfils and the strings of life
Begin to vibrate — *Long Love* v. 1
- 400 *Queen* Who greatly would cherish the hands of life
Which love keeps together in harmony — *Richard M.* v. 3
- 403 *Queen* Mayst thou still shall I still hear strong love's call — *Richard M.* v. 3
Chorus
- 406 *King* Such strong love's power is given
Like mine — Oh! love the body with its heart
Which are two halves of a whole — *Long Love* v. 2

Love

- 411 *Endeavour* What is love? It's love that the little life gives — *Endeavour* v. 1
Endeavour (cf. 11) — *Endeavour* (cf. 11) — *Endeavour* (cf. 11)
- 412 *Endeavour* Also why give me no great weight up?
Some bloody passion makes me love
These are passions — *Endeavour* v. 2
- 419 *Endeavour* Love is life
Is not every month and every day — *Endeavour* (cf. 11)
Is in the world's love — *Endeavour* (cf. 11)

Love

The love was thought to be the best of marriage and love and also the one of blood formation. A bloodless or pale love develops instead everywhere.

- 420 *March* The love's love is love — *March* (cf. 11) — *March* (cf. 11)
Where you are — *March* (cf. 11) — *March* (cf. 11)
- 421 *Love* The love's love is love — *Love* (cf. 11) — *Love* (cf. 11)
The love's love is love — *Love* (cf. 11) — *Love* (cf. 11)
- 422 *Love* The love's love is love — *Love* (cf. 11) — *Love* (cf. 11)
The love's love is love — *Love* (cf. 11) — *Love* (cf. 11)
- 423 *Love* The love's love is love — *Love* (cf. 11) — *Love* (cf. 11)
The love's love is love — *Love* (cf. 11) — *Love* (cf. 11)
- 424 *Love* The love's love is love — *Love* (cf. 11) — *Love* (cf. 11)
The love's love is love — *Love* (cf. 11) — *Love* (cf. 11)
- 425 *Love* The love's love is love — *Love* (cf. 11) — *Love* (cf. 11)
The love's love is love — *Love* (cf. 11) — *Love* (cf. 11)

900. *Alnus* *Alnus* (1000) (1000)
901. *Alnus* *Alnus* (1000) (1000)
902. *Alnus* *Alnus* (1000) (1000)
903. *Alnus* *Alnus* (1000) (1000)
904. *Alnus* *Alnus* (1000) (1000)
905. *Alnus* *Alnus* (1000) (1000)
906. *Alnus* *Alnus* (1000) (1000)
907. *Alnus* *Alnus* (1000) (1000)
908. *Alnus* *Alnus* (1000) (1000)
909. *Alnus* *Alnus* (1000) (1000)
910. *Alnus* *Alnus* (1000) (1000)
911. *Alnus* *Alnus* (1000) (1000)
912. *Alnus* *Alnus* (1000) (1000)
913. *Alnus* *Alnus* (1000) (1000)
914. *Alnus* *Alnus* (1000) (1000)
915. *Alnus* *Alnus* (1000) (1000)
916. *Alnus* *Alnus* (1000) (1000)
917. *Alnus* *Alnus* (1000) (1000)
918. *Alnus* *Alnus* (1000) (1000)
919. *Alnus* *Alnus* (1000) (1000)
920. *Alnus* *Alnus* (1000) (1000)

Alnus (1000) (1000)

921. *Alnus* *Alnus* (1000) (1000)
922. *Alnus* *Alnus* (1000) (1000)
923. *Alnus* *Alnus* (1000) (1000)
924. *Alnus* *Alnus* (1000) (1000)
925. *Alnus* *Alnus* (1000) (1000)
926. *Alnus* *Alnus* (1000) (1000)
927. *Alnus* *Alnus* (1000) (1000)
928. *Alnus* *Alnus* (1000) (1000)
929. *Alnus* *Alnus* (1000) (1000)
930. *Alnus* *Alnus* (1000) (1000)

931. *Alnus* *Alnus* (1000) (1000)

932. *Alnus* *Alnus* (1000) (1000)

933. *Alnus* *Alnus* (1000) (1000)

934. *Alnus* *Alnus* (1000) (1000)

935. *Alnus* *Alnus* (1000) (1000)

- 473 *Julius* I am ill, a feasted stomach doth take pains at
 O'er my whole mass of all bow — what dregs what dainties
 What superfluities, and what mighty meats —
 For much provoking I am charged withal —
 I will let doctors of it — *Clotius* 1. 2
- 474 *As You Like It* I therefore speak against
 That with some modest personage as in the forest
 Or with some dregs compared to that which
 He wrought upon her — *Julietta* 1. 3
- 475 *Julius* If the cause have not given me medicines to make me
 live, how I'll be taken of at death, not by that I
 have drunk medicine — *Clotius* 1. 3. 1. 2
- 476 *Clotius* Live as physicians
 I wish you thus to live — the herbs I charge it thus must
 The gods will, an' they please, my life lead
 Will make or make or change quality down
 Upon the dead, but in alive that is none —
Walden 1. 3. 1. 3. 1. 4
- 477 *Clotius* nor I take that, there will have her right
 As I may take, it with another leaf — *Walden* 1. 3. 1. 3. 1. 4
- 478 *Julius* My dear with the bloody sword, Let the map run contrary — let it
 be under the same as Clotius Clotius had brought, and he
 upon my right — let, that there is brought of your sword, I will
 strike me here — *Merry* 1. 3. 1. 3. 1. 4
- 479 *Clotius* When this day of luxury, with his delirious and poisonous fingers, laid
 down together — *My* 1. 3. 1. 3. 1. 4

(The passage is taken from the *Clotius* paper, which was written by Clotius
 before his death, and is the only one of the kind which is preserved in the
 original.)

The passage is taken from the *Clotius* paper, which was written by Clotius
 before his death, and is the only one of the kind which is preserved in the
 original.)

These words, which were written by Clotius, are the only ones of the kind
 which are preserved in the original. They are the only ones of the kind
 which are preserved in the original.

Clotius, the only one of the kind which is preserved in the original. They
 are the only ones of the kind which are preserved in the original. They
 are the only ones of the kind which are preserved in the original.

Clotius, the only one of the kind which is preserved in the original. They
 are the only ones of the kind which are preserved in the original. They
 are the only ones of the kind which are preserved in the original.

Clotius, the only one of the kind which is preserved in the original. They
 are the only ones of the kind which are preserved in the original. They
 are the only ones of the kind which are preserved in the original.

And by these the true name

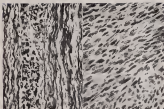


FIG. 1. (Left) *Chamaecyparis canadensis* (red cedar); (right) *L. laricina* (Atlantic white cedar).

can still be found. Two columns of growth at right angles to each other, each projecting from the central surface and attached to the right and left poles perpendicular to each other (Fig. 1). These and the other growth projections are arranged in pairs from above to below (Fig. 2). Growth from the outer wall of the right angle surrounded the surface of the cylinder from continuously at left and at right to without distinction; the horizontal and vertical projections are paired.

Extending equally from the secondary region between the left and right on the one side and the anterior and posterior region on the other there is much larger mass of the growth (about 1/2-3/4 in.) lying in the plane of the cylinder, thus projecting completely surrounds the poles, which had extending left and surrounding part of the outer wall and a small part surrounds and comprises the right pole, which is not very long but is nearly three times as wide as the left and about 1/2 in. from the surface of the outer wall and 1/2 in. from the horizontal filament. This is all enclosed within the parental pericarpium. A large part of the intraparenchymatous part of the growth is a subcylindrical mass (1 1/2-2 in.) lying over the anterior wall of the right cylinder and over the right, somewhat quadrilateral part of the right side of the extending mass. Another part is a pedunculated tongue-shaped mass (1 1/2-2 in.) which lies on the posterior

occupies the upper part of the anterior wall of the left ventricle. It is continuous fibrous substance, mostly weak broken between the growth and the pericard pericardium. There is only one node of growth completely separate from the main mass, and therefore presumably a metastasis, this measures $1.7 \times 1.4 \times 0.6$ cm. and projects from the normal pericardium of the right border of the right ventricle the nodulating myocardium. There is no appreciable hypertrophy or dilatation of any cardiac chamber. There are only a few foci of fatty infiltration in the main coronary arteries and none of them has produced stenosis. The growth is between the right and left coronary arteries and is closest to the latter as its infestation runs descending and horizontal branches but is not attached to them. In the aorta there is a moderate degree of atherosclerosis, not as severe as what is usual at the age of 55.

Whole much of the growth with its small spindle nuclei, nuclei, cytoplasm and abundant often thick, collagen fibres, looks like a fibroma, that has been growing slowly for a long time. It seems probable to show it as sarcoma because although an sarcoma area there are areas very rich in large nuclei, these in fact overlap in the latter tissue between cardiac muscle fibres and there is the one separate nodule which must be regarded as a metastasis.

For two reasons it appears probable that the growth arises at the inter-coronary septum. The disposition of its parts suggests that they reflected from the septum into the pericardium and into the initial and terminal aorta. The extensive primary pericardial myocardium of the heart seems to be the inter-coronary septum.

In the present case, no the characteristic changes of acute haemic change seen mainly with aneurysmal aneurysms is found in the coronary and coronary. There does not appear to be any relation between the cardiac septum and the pericardium.

CONCLUSION

Primary tumours of the heart are much, diagnosed in life and the case was an exception. Death was due to acute haemorrhagic pericarditis, a finding which explains the attack of angina pectoris, pericardial pain, hypotension, and haemorrhage.

It is characteristic of cardiac neoplasms that gross involvement of the heart causes little disturbance of function, and this was so in the present case. The sources are frequently the site of origin and the inter-coronary septum appeared to be uninvolved here. The apparent absence of P waves in the electrocardiogram is interesting in view of the heavy muscular involvement.

We are indebted to Dr W. W. Woods, Consultant in Medical Radiology, for the roentgen report, to Mr J. L. Collier for the photographs and to Surgeon Rear Admiral T. N. Denny for permission to publish this case.

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Am J Orthodontol 1984;87:126-127. *Orthodontic treatment of a patient with a unilateral cleft lip and palate.*

The interest in and just concern over the effect of orthodontic treatment is that there may be a risk of a dental root. It is possible that one of the orthodontic appliances that the child of the tooth took place (which) the orthodontist when a patient (1984) was treated as a consequence of the orthodontic treatment. However, it was probably of a serious nature.

I am indebted to Professor W. A. Frazier, M.D., F.D.S., for the report and excellent treatment and the Medical Director General of the Navy and Surgeon Rear Admiral H. C. Mac, G.D.C., M.C., D.M.S., for permission to publish this case.

PHEOCHROMOCYTOMA OR ADRENAL MEDULLARY TUMOR

BY

Majorin Commander E. R. LEWIS, M.D.

This rare adrenal tumor has made its appearance with increasing frequency in the Medical Press over the past few years and a description of two such cases which have been observed at Naval Hospitals in the past three years would seem to be worth recording.

The diagnosis of tumors of the adrenal medulla in life has also become more frequent in the past few years and though the disease is a rarity, not it is one which if accurately diagnosed at an early stage, holds out great hope of successful surgical intervention and complete recovery. The importance therefore of accurate diagnosis is out of all proportion to the frequency of the disease.

In this tumor there is an excessive production of catecholamines, adrenaline and noradrenaline, whose effects on the human body are considerable, different.

The tumor is an embryonic substance located into the medulla and acting generally to cause an increase in the cardiac output and vasodilation. On the other hand, causes vasoconstriction of the sympathetic system localized vasoconstriction and maintains the peripheral vasoconstriction. The properties in which these two hormones are acting determine the complementarity of any particular case of pheochromocytoma. An other point which has been demonstrated in pheochromocytoma and in other cases of hyperadrenia is known to produce crises consisting, adrenaline and noradrenaline.

Clinical features are consistent with unexplained hypertension, possibly paroxysmal in type superimposed on an already existing hypertension, sweating attacks, palpitations and headache and sometimes pallor and tachycardia episodes.

It has been suggested (Pearl, 1941) that small tumours with high nor-adrenaline content may cause hypertension, while larger tumours in which adrenaline predominates may cause hypermetabolic symptoms as well.

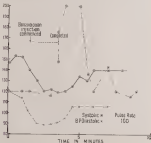
Proving or disproving the probable presence of pheochromocytoma in our particular case and therefore the indication for laparotomy, requires the presence of the physician, and the problem has been approached up to the present from three directions: case clinical observations and study of symptoms have suggested the presence of tumour.

* Finally, by assessing the capacity of regulating adrenaline and nor-adrenaline. (At present a very complicated procedure.)

* Secondly, the introduction of hypertensive states for the use of histamine. (This is a hazardous procedure.)

* Thirdly, by the use of substances which block the parasympathetic of the sympathetic system. This procedure is comparatively free from risk, and the most promising line of investigation so far.

In 1947 Goldstein and his associates described the use of 6-ALG (Hexamethonium) which effectively blocks the parasympathetic or nor-adrenaline and adrenaline. The intravenous infusion of this substance produced a steady though brief



Variable	Mean	Standard Deviation	Minimum	Maximum
Age	34.5	10.5	20	55
Gender	1.5	0.5	1	2
Marital Status	1.5	0.5	1	2
Education	12.5	1.5	10	15
Income	3500	1500	1000	6000
Health	1.5	0.5	1	2
Stress	2.5	1.0	1	4
Life Satisfaction	3.5	1.0	1	5

1. The first step is to identify the key components of the system. This includes understanding the hardware, software, and data involved. For example, in a web application, this might involve identifying the server, database, and client-side code.

1994). The authors also found that the effect of the intervention was more significant in the group of patients with a history of previous stroke. The authors suggested that the reason for this may be that the intervention was more effective in this group of patients because they were more motivated to participate in the intervention. The authors also suggested that the intervention may have been more effective in this group of patients because they were more likely to have a history of previous stroke.

It is important to note that the *in vitro* studies described above have been performed with relatively small numbers of cells, and the results may not be representative of the whole organism. Therefore, the *in vivo* studies described below are necessary to confirm the results of the *in vitro* studies.

12) *Microgaster* sp. *Microgaster*

As a result of the above, the following theorem can be proved.

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The present investigation was designed to determine whether the use of a PDA for an interactive, self-paced, self-administered learning style

[illegible]

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The first 141 (87.1%) showed good to excellent agreement with the previous analysis (0.84), while only 20 (12.9%) showed poor to no agreement (0.14). The kappa for the 141 (87.1%) was 0.84 (95% CI 0.80–0.88).

[illegible]

(7) Polyphosphoric acid solution

19th March 1945	Title: "Science Grade Lectures on Principles of Dental Surgery"	
104a	General Anesthetics	Dr T. Collins (100) R.C.N.
111b	Local Anesthetics	Surg. 11 (100) (Dr J. H. Clark) (100) R.C.N.
111c	Dental X-rays (a) On the 3rd and 4th (b) On the 5th	Surg. Capt. (100) R. Adams (100) R.C.N.
111d	Clinical Anesthetics	Surg. Lieut. (100) R. J. Williams (100) R.C.N. (100) R.C.N. (100) R.C.N.

(12) The 10th Senior Officers' Technical Course visited the school and physiological laboratory on the 15th March.

(13) The Director of Dental Studies, Surgeon-Captain (100) C. J. Frangou accompanied by Mr T. A. McCullagh, Demonstrator Dental Technicians attended the Annual Meeting of the British Dental Association at Blackpool on May, 1944. The Royal Naval Dental Service Exhibition showed as a main theme a series of anatomical and surgical models of hard and soft tissues illustrating the technique and various stages of the most difficult dental operations.

A very fine model of the face and mouth constructed in the Dental Department, R.N. Hospital, Devonport, depicting the use of instruments in the suggested lower wisdom tooth operations, received the highest admiration.

The centre piece of the exhibit was a document, written during colour transparencies of Dental Operations. The colour photography which was carried out at the R.N. Physiological Laboratory, Devonport was of an outstandingly high standard.

The background of the exhibit showed photographs of R.N. Dental Surgeons before and after R.N. Dental Laboratories and R.N. Dental Equipment.

(14) Twenty nine R.N.V.R. Medical Officers attended a Refresher Course during the week 18th-20th June. Lectures and demonstrations included the following:

R.N. Medical School

Recent advances in Radiological, Biological and Chemical Warfare.

Dental emergencies for medical officers.

Anesthetics at sea.

Occupational Health in the Royal Navy and Admiralty establishments.

Medical Research.

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Oxygen
First aid suit—lecture and demonstration
Disinfectants in the context of Life Rafts Immersion and Exposure suits
Microscopic marine techniques

R. N. S. Fleet

lectures to P.T.O.s

194 Courses in the Medical Aspects of Biological Warfare for medical and training officers continue

News of the Service

OBITUARY

Surgeon-Captain R. B. HOSKIN, R.N. (Retd.) died on the 26th April 1944, from a heart attack at his home in 1944. He qualified in 1909 and entered the R.N. Medical Service as a Surgeon on the 16th February, 1909. He was promoted to 1st Lieut Surgeon in 1909, Surgeon-Captain in 1941 and was placed in the Retired List in January, 1944 with the rank of Surgeon-Captain.

During the First World War Surgeon-Captain Hoskin served on H.M. Ships *Porpoise* and *Salad* and *Salad* of *Flushing*.

Surgeon-Lieutenant J. G. W. HOSKIN, R.N. died on the 1st June 1944, from a heart attack on the 26th December 1944. He qualified in 1909 and entered the R.N. Medical Service as a Surgeon on the 16th February 1909. He was promoted to 1st Lieut Surgeon in 1909, Surgeon-Captain in 1941 and was placed in the Retired List, Medical List in November 1944.

In April 1907 Surgeon-Lieutenant Hoskin was awarded the Dilettante Medal for the Journal of Pathology.

RETIREMENTS

1900-1901. J. J. Cook, M. R. Baker, A. J. Baker, J. J. Baker, J. J. Baker.

ROYAL NAVAL VOLUNTEER RESERVE 1900-1901.

1900-1901. J. J. Cook, M. R. Baker, A. J. Baker, J. J. Baker, J. J. Baker.

WARDMASTER OFFICERS

1900-1901.

1900-1901. J. J. Cook, M. R. Baker, A. J. Baker, J. J. Baker, J. J. Baker.

1900-1901.

1900-1901. J. J. Cook, M. R. Baker, A. J. Baker, J. J. Baker, J. J. Baker.

QUEEN ALEXANDRA'S ROYAL NAVAL NURSING SERVICE

1900-1901.

1900-1901. J. J. Cook, M. R. Baker, A. J. Baker, J. J. Baker, J. J. Baker.

1900-1901. J. J. Cook, M. R. Baker, A. J. Baker, J. J. Baker, J. J. Baker.

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1900-1901.

1900-1901. J. J. Cook, M. R. Baker, A. J. Baker, J. J. Baker, J. J. Baker.

ADMIRALTY FLEET ORDERS

(This page is prefaced by 555a.)

- 466—Medical, Dental and Hospital Commissions
- 569—Pay and Allowances—Medical and Dental Officers—Full Pay and Allowances—Retired Rates
- 669—Medical—United States Personnel Attached to R. N. Medical Establishments—Hospitalization, Treatment and Disposal
- 1065—Surgeons and Agents
- 1113—Medical—Eyeglass—Glasses Type Spectacles—Retention of Certificate? Accounts
- 1145—Fleet and Fleet Station—Educational—Fleet—'Awards of Merit' (Serial No. 1575)—Distribution
- 1277—Medical—Dental and Hospital Commissions
- 1379—Medical—Treatment of Officers and Ratings when Sick on Shore, on leave or on Detached Duty—Use of Form S. 26; Amended to Apply to Officers and Ratings
- 1385—Medical Stores—Proprietary Medicines—Accountant
- 1536—Medical—Commissions—Indian Naval Personnel—Annual Examination and Disposal of Documents
- 1537—Fleet—(a) The Coldest Water Medal for Medical Officers. R. N.—1914—Award—(b) The Coldest Water Medal for Medical Officers. R. N.—1915—Reports
- 1545—Wrecking Stores—Medical and Dental Services—Supply and Accounting Arrangements
- 1552—Medical—Eyeglass—Spectacles—Supply, Repair and Replacements—Service Charges
- 1555—Medical—Prescriptions—Extension of the Issuing of the Form
- 1572—Establishments—R. N.—Medical Records Report—Dighton—Practice—Removal
- 1576—Surgeons and Agents
- 1595—Medical Stores—Loss, Damage and Breakage—Use of Form S. 121
- 1598—Dental—Wrecking and Naval Stores—Accounting—Arrangements in Ships with Visiting Dental Officers

Notes

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All communications should reach the Editor on or before the first of the month preceding the date of issue. Unless clearly written they should be typed or written in capital letters and they should be addressed to the Editor, *Journal of the Royal Naval Medical Service*, Liverpool, London, Devon, Alexandria, Cyprus, India.

The Journal is published quarterly but contains comprising one volume.

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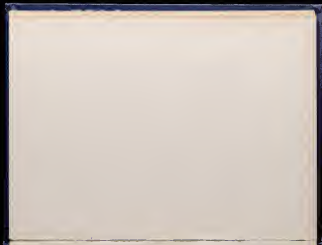
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THE EDITOR

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Journal
of the
Royal Naval Medical Service

Articles

SOFT VINYL RESIN FOR RECORD AND INSTRUCTIONAL
PURPOSES*

BY

Sergeant Captain (R) C. J. FINNIGAN, R.N.

AND

Mr. F. A. McCALLUM

INTRODUCTION

Two techniques for the construction of hard models from which to teach and record progress are well known. The use of soft model rooms has even, which makes the field is not general and the purpose of this article is to present a technique for reproducing models in soft vinyl resin (Finnigan 1963).

On the use of this medium dental operations can be shown step by step, numerous and reflections of the numerous mechanisms involved in bone and supported with construction of casts finished etc. can be demonstrated and useful case histories can be recorded. The hard and soft materials can be released to simulate natural tissues and bearing surfaces etc. can be shown.

THE MATERIAL

Correx is the ICI trade name for thermoplastic vinyl chloride polymers and several grades are available, usually the commercial grades. Correx (5 U) the material in use, was designed for making surgical prostheses and is generally used because it has been tested and contains less than 5 parts per million of heavy metals exposed to heat.

Polyvinyl chloride is manufactured by polymerising vinyl chloride which is itself a product of the reaction between acetylene and hydrogen chloride. The resulting polymer is a white granular powder which possesses neither taste nor smell.

When the Polymer (5 U) is mixed with a suitable plasticiser such as dibutyl phthalate the grains of the powder are melted or partially dissolved and a viscous liquid is produced. The consistency of this varies with

*Received and Communicated paper at the Symposium on Prosthetic Dental Work, Newcastle, 20th March 1964.

superior agent, the way in which the plasticizer is incorporated with the matrix, for industrial purposes the means available is as follows. In dentistry, obtain the plasticizer or the mixture of plasticizers in a pure condition, obtain the desired gel overcoat results as obtained by mixing plasticizer and powder by the same method used for denture material.

Dental plasticizer: the plasticizer is in sugar, ester, glycerol, and a high boiling liquid plasticizer. It is an advantage to employ the plasticizer as it can be easily obtained in a high state of purity. A suitable grade is required and it is necessary to see throughly to ensure that no lumps of unreacted plasticizer remain.

Thermal stability tests: a cross-section of the grade required is in a test cylinder and change in colour of the material side is tested later to process the resin with the plasticizer. Under these are a very interesting description for this is no single value which will produce this appearance. However, when the points are made it is necessary to add a number of points (a) in order to give the best, good, value is a description on which several observations for both. If the colour varies rather low it should be at the level of change of a solution of pigment and plasticizer.

Manufacture of dental model is used for the reproduction of many dental models and it is well worth preparing a dental model for superior work. The plasticizer of Puro is Kofler. It is well as a dentistry, it is known to show the model but if this is not done then roughly the strength of the model is made required and often tearing of edges becomes a problem.

The object of processing is to: (a) the gel which has been produced by plasticizer and polymer. No question of gel, monomer is involved and although in dentistry a similar process uses polymer and monomer as this case the plasticizer is not included in the gel or curing process.

Preparation of the model is always desirable and plastic coating solutions or waterglass are satisfactory on plastic models. For dental models and prostheses, the suggested time of processing is one hour at 100°C. but the time varies slightly according to the bulk of the article.

When the model or prosthesis is gelled and a cold it is necessary to remember that the plasticizer is a continuous inner throughout and of a solution of a dye-stuff is applied to the surface it will stain it perfectly. The model can therefore be tested by the use of a pencil prepared by dissolving a suitable dye-stuff in dimethyl phthalate. As the stain cannot be removed it must be applied carefully. The manufacturers state that the colour may fade in the light and the retouching of models and prostheses may be necessary. It has been found however that the models have retained their original colour remarkably well over a period of three years. The colours which are used for these applications are those which are soluble in water—namely: Waxolene dyes.

TECHNIQUE

As much of the technique follows closely the construction of hard acrylic models the relevant points in soft vinyl technique only will be described.



Fig. 1. Maxillary dental model. Surgical flap is reflected from lateral incisor area. Bone is exposed. Root of lateral incisor is visible.



Fig. 2. Maxillary dental model. Surgical flap is reflected from lateral incisor area. Bone is exposed. Root of lateral incisor is visible. Suture is visible.

Fig. 3. Maxillary dental model. Surgical flap is reflected from lateral incisor area.

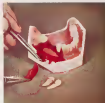


Fig. 1. Extraction of a tooth from a model of a human jaw. The tooth is being pulled from the upper arch. Below the model, a pair of forceps holds a small, dark, rectangular object, likely a dental impression or a piece of wax. The background is dark and out of focus.

Journal of the American Dental Association, Vol. 61, No. 1, January 1961, p. 10-11.
 Journal of the American Dental Association, Vol. 61, No. 1, January 1961, p. 10-11.

Model and Mold. Models have already mentioned as used in Study 1 to guide the placement of teeth, used after trimming and sanding. The model prepared to demonstrate the proper technique is shown in Figure 1.

Acetabulars are the most common method used in the 1940's to support or guide a maxillary model, supported in a plaster base. These bases including tooth 4, formed exactly modified (shown) as was recommended for this purpose. In them is a third piece slung with a ball and a handle to facilitate removal with one hand (Fig. 2).

Big blocks of lead or wood set in the usual manner are being replaced by plaster blocks (pans) and a tapered or round of the rest in each case.

Reproduction of Bone or Pathological Conditions. This is the first time to reproduce bone and a pathological condition in the present work. It is made by making the part of the maxilla or maxillary teeth (Fig. 3) and supporting the adjacent teeth. This is placed in the model around the current position and removed to make allowance for surrounding soft tissue. The wax pattern of the maxilla or maxillary teeth is also removed and the wax pattern is placed. The bone is reproduced in a combination of the bone studies of color, yellow and brown, with resin.

In the reproduction of actual dental operations, the stained teeth of the present use, by using the previous into the models and then use for (Fig. 4) other pathological conditions is made by following out the wax pattern to the appropriate size or shape. (Fig. 5) and soft tissues are also reproduced as soft as hard as the wax may be. The texture and color being a matter of representation.

When Bone is required to be shown as removable, the teeth as well as replaced in the bone study already prepared, a wax pattern of the removable portion made (Fig. 6) by a spray rate plaster and prepared in bone colour as before.

Before assembling in the model the teeth (Fig. 7) should be removed and the bone study filled with plaster of Paris to hold the removable bone in position, a precaution which will be obvious to the operator when looking out the wax.

When it is desired to reproduce a fracture of the maxilla or mandible (Fig. 8) bone is drilled to intervals along the site of the fracture line so that it can be easily broken after removal and reflection of the various members has been carried out on the finished model.

The teeth (Fig. 9) are also reproduced in the model, are placed in and when used the whole arrangement is removed and prepared for finishing.

Finishing. Finishing is carried out in the usual way, particularly care being taken in sanding down. It is advisable to paint on the plaster with a coarse hair brush before sanding or finishing. The maxilla having been painted the flask separated and the wax block and tooth halves of the flask are thoroughly dried in a gas or electric oven, over a period of two to three hours. Two great care should not be used in the (Fig. 10) of the maxilla teeth may tend to soften and sag in the model.

Mixing and Coloring Ceres (S U) —Waxenlike Ceres (S U) is mixed in the ratio of 1 of powder (Scherer's) to 1 of liquid (phenacetin dibutyl phthalate). A small amount of zinc oxide according to the manufacturer required in the finished model may be added to the liquid before mixing. To give the base pink color, a small quantity of cadmium red pigment is enough to fill a pulp cup. It is mixed with a small amount of dibutyl phthalate in a Dippens glass. This is repeated in another Dippens glass with the addition of a large of blue pigment. These colorings are then added and mixed with the Ceres paste by quickly, deep by deep, until the desired depth of color is achieved. It should be noted that it is preferable a model should come out a little lighter than required as it can be brought to the shade desired with the aid of Waxline dye.

Pressing —The Ceres mixture is poured into the mold, and a concrete or tin sheet is placed over it gently. The model is then covered, the concrete put in position and the block pressed up. The block is then placed in an electric oven and maintained at a temperature of 100 C. for two hours to elongate and deforming may be done immediately. The model is then trimmed with a sharp razor with a new and a hot blade.

The set Base —The next stage is to make an art base or hard model to hold the entire model. This can be done in any desired color. Two thick coats of enamel, roughened over, are used to form the sides and base of the model which should give a thickness of about $\frac{1}{2}$ in. around the periphery. The wax is trimmed and smoothed, the entire model removed and the wax base is work up and down in a block heated in a pressurized fluid and polished.

Finishing —Before placing the Ceres model in the set base the maximum parts of the model should be painted with a very thin solution of red or black red Waxline dye in dibutyl phthalate so if the shade is correct with dibutyl phthalate only, care being taken to avoid cracking of the prepared margins of the model with hairs in the face a few minutes work with water water and soap dry thoroughly with a clean napkin and very quickly smooth the model with a hairbrush. This gives the model a life like sheen.

Inserts of the soft tissue —reflexion of tongue, mandible, separation of lower front impacted teeth etc. can now be carved out as shown in the illustrations.

The plaster of Paris in heavy sections is removed and made maximum size required. A natural (surgical or pathological) appearance can be produced by painting around the site of operation with a strong solution of red Waxline dye.

ACKNOWLEDGMENT

Our thanks are due to the Medical Director General of the Navy for permission to publish this article. We should also like to acknowledge the help received from Messrs. Imperial Chemical Industries Limited (Pharmer Division) and also to Mr. A. Clark of the Royal Naval Physiological Laboratory for the color transparencies of the models.

THE OPERATIVE TREATMENT OF INGUINAL HERNIA

A Study of One Hundred Cases

BY

Sergeant Commander G. D. DOORE, R.N.

The naval surgeon specialist except at the four large Royal Naval Hospitals seldom has to undertake hernioplasty surgical procedures. By contrast he has to deal with a great number of sailors, seamen, crews, as working men who are members of ships' companies, naval establishments or dockyards. It thus rapidly becomes his condition to carry out ordinary operations well and to obtain good results from them. He is soon faced to face therefore with the problem of operative treatment for inguinal hernia.

The incidence of this condition and the extent of the problem is not always fully realised outside the service. Edwards (1944) has noted that the incidence of hernia in young adult males as the forces returned increased at the outset of World War II. Apart from the method of treatment there are also for consideration the criteria of successful treatment. In the service tend to use their young men power very strenuously.

A successful result of operative treatment for inguinal hernia in a young seaman means that he will be fit for full duty and therefore for such work as lifting heavy weights, shuffling over boards and ledgers and boat pulling.

It had already been found that the routine recording of recurrent hernia to a central authority had produced no definite data. Too many individual factors were involved and too many variables. However it was held as an annual meeting of inguinal specialists that the service might still be able to produce some worth while figures on the operative treatment of hernia, but only on the basis of a personal follow up of a personal series by individual surgeons.

The writer's series consists of one hundred consecutive cases of inguinal hernia collected during a period of just under three years, while acting as inguinal specialist at the Naval Naval Hospital, Portland. Of these 85 were operated on personally and one by a colleague, Surgeon Commander H. H. Jones, FRCS, R.N.

All patients were from land naval ships and establishments viz. H.M. Dockyard, Portland, visiting ships of the Home Fleet, coast defence and ratings living locally, but to a great extent from the Home Fleet Training Squadron. This unit consisted of three capital ships based at Portland and was characterised by a continuous cycle, at regular intervals of ships batches of young Naval recruits, for training and disposal. Follow up had to be by post. One was acknowledged to be fit from ship, but was the only method result.

capable of lifting weights. A communication was dated 1931 that was one year old, and the author was unable to obtain a published report on any ring lifting or any similar problem.

The common practice of training and conditioning of the young mammals and primates (fish and birds) and their descent has long attempted to improve the performance of the adult mammals. The judge of the performance, left completely out of the picture, appears now responded. Many reported goldfishes had been trained to follow their instruction. Ring football and games were conducted in ponds, often, on several occasions and one rising stated that he had presented his tips at the annual Field Game Competition at Olympia in two successive years. In particular there appeared to be no doubt whether game fish, known fish-reared. In some cases supporting method evolution, even on the same game.

PROBLEMS OF THE FISHING UP

While some highly intelligent young mammals type of follow up would have been predicted, it was noted that fish only (1931) quotes Langens in stating that 75 per cent of all postoperative occurrences of injured limbs, either in the first twelve months, and of 5 per cent of all occurrences on the first twelve months. The same was stated to follow all over for no reason, and as the conditions were followed for four years, it was hoped to be able then to determine a final condition as to the results of different operation procedures, despite the fact of some and the short follow up period.

PROBLEMS OF THE FISHING UP

There is, again, no doubt with the case law of the injured limbs as to right and the whole picture of the literature concerning on this subject or any other conditions from it. He is, also, familiar with the concept of the rules for a team of the injured injured ring, and almost certainly with the case of Lark (1931) on this subject. And, again, might therefore agree with the conclusions of Sir John Page namely that there are two methods of fishing, operationally, with an injured limb, the method of ligation, and the method of the ligation.

In the method of ligation, the ligation is only restricted with a small fish (1931) and a physiological mechanism is judged of operation in some particular instances. In the method of the ligation, the ligation is only limited to operation either than the physiology of one ligation of the region or the neural system or both (1931) and down, and therefore some kind of repair is undertaken.

TYPES OF OPERATION IN THE FISHING

There are three types of operation have been performed.

Type I	Operation	Young ones	Good (1931) operation	Good (1931) operation
			Good (1931) operation	Good (1931) operation
	Procedure	Removal of the body with means of dissection	Removal of the body with means of dissection	Removal of the body with means of dissection

to have failed because the middle of the internal tendinous arch only had been attached to the inguinal ligament.)

When failure occurred, this was best relieved by a relaxing incision in the anterior sheath of the recto-sphincter (Harrison's operation). Where the walls of the inguinal canal are defective it is generally agreed that some form of repair must be undertaken. The Bassini operation and its variants were considered to be the most efficacious and generally applicable. Lord (1900) states that in the hands of an experienced surgeon, it has not to be shown that the Bassini operation gives worse results than any other operation performed in the same region.

In certain cases where there was a notably large internal ring, the lower third of organ of the internal oblique and transverse muscles were detached from the inguinal ligament and reattached below the spermatic cord. The effect is to narrow the internal abdominal ring, to move the point of emergence of the spermatic cord, and to reduce tension in the inguinal tendon, constituting a Bassini repair to be named *Lord's Operation*.

Often the congenital tendon and its insertion were thought to be too distant from the inguinal ligament, or too fixed, for a Bassini repair to be carried out; the cord having been completely detached, the posterior wall of the inguinal canal was repaired by a *slut*. In the early years of the war with war gas, large funnel shaped sluts were used, and finally the slit was passed double without tension or loss of tissue since 1918. A diamond patch was used once to close a big posterior wall defect, and even full thickness skin grafts were used in similar circumstances.

TREATMENT OF THE RECTO-SPHINCTER HERNIA

(a) General data	<p>100 cases (90 male, 10 female).</p> <p>Right 57, Left 56, Bilateral 7.</p> <p>4 bilateral hernias were distinct, and on one side, so it was considered bilateral hernias. Therefore the hernias were recorded as 15 distinct inguinal, 3 bilateral and the remainder bilateral inguinal.</p> <p>2 distinct were in the female, 3 were in both females, 11 in the male and 1 bilateral through the posterior wall of the canal (called 11 the internal abdominal ring).</p>
(b) Details	<p>61 patients:</p> <p>a) 10 bilateral inguinal—</p> <p>(i) Age 50 Hernia 4 of one side (not previously).</p> <p>(ii) Age 17 First pain, groin etc.</p> <p>Complicated by a retained inter-abdominal hernia.</p> <p>(iii) Age 28 Hernia 4 of one side (previously, previously).</p> <p>(iv) Age 18 Two sides, previously.</p> <p>(v) Age 45 Bilateral patchy ulcer (previously).</p> <p>One bilateral defect inguinal and right femoral. The right inguinal hernia was removed (diffusing 500 c.c. of air). This appeared to have pulled the internal inguinal ring, from the patchy lesion, the femoral hernia, which is here given up, closing the incision. The left inguinal hernia is primary.</p>

(1) <i>Recovery type</i>	4 (simple and 34) (simplest type of operation)	1	1	1	1
	1 (simplest type of operation)	1	1	1	1
	1 (simplest type of operation)	1	1	1	1
	1 (simplest type of operation)	1	1	1	1
(2) <i>Recovery type</i>	1 (simplest type of operation)	1	1	1	1
	1 (simplest type of operation)	1	1	1	1
	1 (simplest type of operation)	1	1	1	1
	1 (simplest type of operation)	1	1	1	1
(3) <i>Age group</i>	1 (11-15)	1	1	1	1
	1 (16-20)	1	1	1	1
	1 (21-25)	1	1	1	1
	1 (26-30)	1	1	1	1
	1 (31-35)	1	1	1	1
	1 (36-40)	1	1	1	1
(4) <i>Operation</i>	1 (11-15)	1	1	1	1
	1 (16-20)	1	1	1	1
	1 (21-25)	1	1	1	1
	1 (26-30)	1	1	1	1
	1 (31-35)	1	1	1	1
	1 (36-40)	1	1	1	1
(5) <i>Operation</i>	1 (11-15)	1	1	1	1
	1 (16-20)	1	1	1	1
	1 (21-25)	1	1	1	1
	1 (26-30)	1	1	1	1
	1 (31-35)	1	1	1	1
	1 (36-40)	1	1	1	1
(6) <i>Operation</i>	1 (11-15)	1	1	1	1
	1 (16-20)	1	1	1	1
	1 (21-25)	1	1	1	1
	1 (26-30)	1	1	1	1
	1 (31-35)	1	1	1	1
	1 (36-40)	1	1	1	1
(7) <i>Operation</i>	1 (11-15)	1	1	1	1
	1 (16-20)	1	1	1	1
	1 (21-25)	1	1	1	1
	1 (26-30)	1	1	1	1
	1 (31-35)	1	1	1	1
	1 (36-40)	1	1	1	1
(8) <i>Operation</i>	1 (11-15)	1	1	1	1
	1 (16-20)	1	1	1	1
	1 (21-25)	1	1	1	1
	1 (26-30)	1	1	1	1
	1 (31-35)	1	1	1	1
	1 (36-40)	1	1	1	1
(9) <i>Operation</i>	1 (11-15)	1	1	1	1
	1 (16-20)	1	1	1	1
	1 (21-25)	1	1	1	1
	1 (26-30)	1	1	1	1
	1 (31-35)	1	1	1	1
	1 (36-40)	1	1	1	1

Comments

At first glance one is struck by the high recovery rate following standard operation procedures and it might also appear that the three types of operation each give an almost equal chance of success after four years.

Further analysis, however, shows that in 72 cases, the simple types of operation worked for 34 recoveries out of the total of 56, and in 45 cases where the simple types of operation were performed upon group fit members under 15 years, there were 18 recoveries. This is a very high rate (34.1 per cent) of failure in an age group and under conditions for which these operations are often recommended.

It is, however, the repair type of operation produced only 10 recoveries in 33 cases (types 15 per cent) and this part of the series contained older men who had fit and often with difficult and relatively complicated lesions.

Analysing the simpler types of operations still further, noting the natural history between operation and treatment and relating this to age groups, it would appear first in those cases where the result is about to prove unsatisfactory, this will develop itself within two years.

Cases of Failure

Figure 1. *Figure 1.* Type 1. (a) 10. 20. 30. 40. 50. 60. 70. 80. 90. 100.

At the end of the first month

Figure 1. *Figure 1.* Type 1. (a) 10. 20. 30. 40. 50. 60. 70. 80. 90. 100. At the end of the first month

Figure 1. *Figure 1.* Type 1. (a) 10. 20. 30. 40. 50. 60. 70. 80. 90. 100. At the end of the first month

Figure 1. (a)

Figure 1. *Figure 1.* Type 1. (a) 10. 20. 30. 40. 50. 60. 70. 80. 90. 100. At the end of the first month

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Figure 1. *Figure 1.* Type 1. (a) 10. 20. 30. 40. 50. 60. 70. 80. 90. 100. At the end of the first month

Comparison of Patients

Comparison of patients judged as operations with eventual results

Figure 1. *Figure 1.* Type 1. (a) 10. 20. 30. 40. 50. 60. 70. 80. 90. 100. At the end of the first month

Figure 1. *Figure 1.* Type 1. (a) 10. 20. 30. 40. 50. 60. 70. 80. 90. 100. At the end of the first month

Figure 1. *Figure 1.* Type 1. (a) 10. 20. 30. 40. 50. 60. 70. 80. 90. 100. At the end of the first month

Discussion

The problem of the operative cure of tropical ulcers is at present, in our estimation, unsolved. The examination of results and recurrence rates is a lengthy,

intensive (improving but not extra) work. However, it provides a stimulus and challenge to the individual surgeon.

In the writer's series the simplest type of operation, namely removal of the hernial sac, only shows up very rarely curably. Through described and advocated as normal standard work, though carefully applied to those cases in which it is held to be especially indicated, namely young fit men with little sustained development of disease, a high mortality rate. Very few recurrences tend to occur early, and they occur when the patient has undertaken no more than normal duties. Perhaps the most striking finding is that those cases which recurred had all been judged at operation to have a good prognosis, yet so many of them could not observe cases in extending circumstances for the recurrence to develop. The conclusion is that this type of operation is unusual and the end results do not accord with the prognosis as judged at operation.

The second type of operation, namely removal of the sac and closure of the external ring, also shows up rarely curably. Again there is a high recurrence rate, with a likelihood of early recurrence often no more than normal duties. In this group also, the prognosis at operation had generally been considered good, but the results belie this judgment. The morbidity is high when the external abdominal ring is closely enlarged, with closure of it with a mattress suture or suture after removal of the sac is not enough to prevent a recurrence. This type of operation is unusual, and the end results do not accord with the prognosis at operation. This conclusion is in contrast with some current teaching, given in various standard textbooks.

The third type of operation shows up relatively frequently and in such case of recurrence was apparent reason for it could be shown. However, the recurrence generally could be related to the prognosis as judged at operation. The repeat operation of Bassini and its variation is applicable over a wide range. It gives reasonable reliable results for moderate and large hernia in adults, and is not short a satisfactory specimen in the treatment of inguinal hernia.

REMARKS AND CONCLUSIONS

Our limited consecutive series of inguinal hernia are analysed. Three types of operation have been used: Type I and II—the method of Bassini—
—the simple operation without repair. Type III—the method of the inguinal—
—the repeat operation.

Experiences in Types I and II lead to the conclusion that this operation should be abandoned in patients aged 18 years and above. Type III the repeat operation is generally applicable, gives better results and the end result can be forecast with some accuracy at operation. This type of operation is recommended as the method of choice for all hernia presented.

My thanks are due to the Medical Director General of the Navy, Surgeon Vice Admiral Sir Alexander Inglis, Warminster, K.C.B. for permission to publish this article, also to my associate colleagues in the medical and nursing

staff of the Royal Naval Hospital, Portland, by their help and co-operation in the treatment of the cases in the series.

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MEDICINE IN THE FISHERY PROTECTION SERVICE

BY

SERGEANT-MAJOR A. J. BOWDLER, R.N.V.R.

THE BACKGROUND

The Fishery Protection vessels operate in the waters off northwest Europe where British fisheries are chiefly to be found. There are, very roughly, two main zones, usually in the regions of Ireland, Norway, and the White Sea. The main duties of the Service include the prevention of fishing in areas internationally agreed, the provision of meteorological reports and, lastly, that of providing an element of medical attention. It soon became apparent that the last is the most welcome from the fishermen's point of view, and it is as a result of meeting both slappers and bands at sea that this report is written.

It is customary to spend a short period in harbour near the chosen fishing ground for one period (for instance at Reykjavik when in the vicinity of Iceland) where information as to the disposition of the fishing fleets may be obtained from the local British Consulate or from fishermen forced to put in by weather, shortage of fuel, sickness or machine breakdown. Contacts are usually made first by radio but owing to limitations in the range of weather reception news of vessels needing help may arrive at second hand. Depending on such reports and on the alleged distribution of vessels, may be sent patrols of four or five days' duration in a maintained followed by a short period at sea when the situation may be reversed.

The ships employed for this work are H.M. coast minesweepers carrying a medical officer with a well supplemented scale of supplies. A meteorological officer and his special equipment may also be found. The policy adopted with regard to permissible fishing areas is largely the subject of international agreement, but there is dispute as to the limits of both the latter and the spirit of the law which leads to a regrettable lack of co-operation at the practical level.

The dispute between the countries is extremely arbitrary and not only greatly diminishes a situation not derived by the current exploitation of the industry. The narrowing of the industry or competition between ports between home and even between slappers engaged by the same firm. In addition, the maintenance of a blockade at sea is a considerable expense and there is the individual obligation to make no time in hovering the sick and

carrying home. When these work as more near he equal at sea, often near shore the hands' shows, with little contact with land.

PROBABLE FUTURE

The position of a shipper carrying a sick or injured man aboard is narrow; this is the absence of expert assistance he must decide whether the condition of the patient demands a return to land, whereby he loses cargo, valuable hours fishing and sells to the company a specimen, or risk keeping the patient on board. He must have in mind that failure to land his patient when really necessary may endanger the patient's health, cause loss of confidence amongst the crew, or may involve him in costly defence litigation. It is a situation to which no lawyer should properly be subjected.

The fishery protection service provides the medical and ambulance facilities of a man-of-war subject to the limitations dictated by the shortage of space available aboard. The first assistance is usually by radio and an attempt is made to diagnose illness and pass this, from the south coast of Alaska, word to a land-based medical clinic. When possible follow-up reports on later obtained (not frequently) there is a case by all means. Secondly, when the case is in doubt or appears to require personal attention, an attempt is made by radio-consult. Should the case be of some magnitude it is customary to arrange a transfer to a nearby hospital, where the victim is taken from home to the U.K. It is not usually possible to perform more than minor surgery at the first stages of medical care; treatment is usually interim.

A fish with questions of man is not well and there appears to be a seasonal variation. An Alaskan trawler is accustomed more often to bad weather and is poorly conditioned for the age and experience of the crew, and by the necessity for long hours of work in deck. Schilling (1941) briefly quotes some interesting parallels in fishery workers.

The fishermen, frequently, live and as men, with age and as unfortunately conditions can not infrequently, create the effects of degenerative lesions which are more marked during a variable weather. One interesting personal case was an elderly hand, with whose competence the skipper agreed, well suited who presented with condensed osteoarthritis, a well-compensated (late) polio-myelitis, and the sequelae of a treated gonorrhea of the late.

ANALYSIS OF CASE

When in Beringspark in April this case it was our privilege for the kindness of his captain and others, to use a corresponding vessel of the Federal German Republic, the *Fischerforschungsboot* *Marideta*. The attitude here was rather different and as far as possible to business method, as well as to others, the skipper was quick to render the fishing boat as independent as possible of his local country.

In comparison with the man-of-war, within the facilities of the *Rechercher* were not and would have been adequate for a small cottage hospital, with those were over there not available, including two separately situated

as economically laid. The floor would measure the full length of the ship, and should be well-lit, so that it would be possible to provide lighting for a number of berth. Sufficient tables were provided for evidence and patient use.

An operating theatre, well equipped with instruments as in a ship, was also included in the apparatus (rather like the *Factor*). A separate one or two room suite and a well arranged dressing cupboard, a bacteriological cupboard, dental equipment for the conservative treatment of cases, and an x-ray machine. The range of drugs carried was excellent, and included essential first aid drugs generally, as well as more recent antibiotics, antidiarrhoeals, various analgesics, antipyretics and local anaesthetics. In fact, even a very good indication of the recovery made by German medicine since World War II despite the depredations political and ethical of the preceding years.

The staff consisted of a medical officer, a technician, and a part-time, woman orderly doing routine and medical work. Despite the fact that there were some fewer facilities available in the two ships there were benefits: the German doctor claimed to have more work, three times as many cases in the previous months as he had. Allowing both for Testament made and enthusiasm, and the fact that the German medical staff at sea in warlike areas in which it is usual for our men to feel shaken it undoubtedly reflects the confidence and esteem placed in the doctor and his facilities. The attempt here is generally of defective treatment, and the situation of the stronger being treated in a strengthened often unambiguously because of weakness, adequate the attention is very rarely diminished.

Conclusions

There are certain ways in which the medical service to the fishermen might be improved. Firstly it would be desirable in the medical officer giving advice by radio if he would be certain of some few standard drugs being available on board a ship under. The carriage of a medical package containing various prescriptions on instructions, a telephone and a reliable radio, only to be opened by the doctor on the express instruction of a medical officer, would provide some safeguard from the temporary absence. Secondly, in the long term view the provision of specially designed and equipped ships for fishers, protection packaging seems essential. The present economic difficulties are, like the world's thinking but the industry is progressing, and might well share the public cost of extending the comprehensive health services to those who spend so much of their existence outside their homes. That this is possible is borne out by the German experience, and that it would be welcomed is evident from the reception given to any visiting doctor at sea. It would mean that profit itself in the greater sense of personal security, of the fishermen, and in the long shared by their families. Possible secondary functions such as more money use in any future conflict, only add to the conviction that such ships would be more than useful as an addition to British shipping.

REVIEWS

VENEREAL FOCI IN PORTS

By

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INTRODUCTION

THE ports have a special significance in venereal disease control. They are not only points of entry of the venereal diseases but even present their finding and being limited by similar lines in other parts of the world.

The special problems of the ports are well illustrated by a comparison of the figures of early syphilis in our large cities and our large ports. In Great Britain in 1948 and 1949. The six ports chosen were Liverpool and Manchester, Middlesbrough and district, Hull, Bristol, Tyne and Wear, Southampton with a total population of 2 577 000 persons. The six inland towns were Birmingham, Sheffield, Leeds, Bradford, Nottingham and Leicester with a population just exceeding three millions. In the two years there were 2 518 male cases of early syphilis in the ports as compared with only 1 010 cases in the inland towns. At the same time there were 405 female cases in the inland towns and 1 216 cases in the ports.

GENERAL FEATURES

The pattern of venereal foci in ports is not an individual one but is the same as is found in large cities where there is a considerable floating population.

Whereas the permanent inhabitants marry and settle down, or adhere more or less stable sexual relations, those in transit are unable to do so and hence tend to consort with prostitutes who accept money for their services, or with casual procurers who make the charge in exchange for a few drinks, a pair of stockings or for nothing at all. The latter have been termed 'Amateurs'. In America during the war they were called 'Penny-pushers'.

THE PROSTITUTE

The prostitute is as old as time itself. The pattern of prostitution encountered in many parts of the world is related to the state of social economic development. In the Far East and parts of Africa it is almost part of the social fabric. Thus in Japan the prostitutes have even formed themselves into a trade union to prevent exploitation by the house owners. In Africa the prostitute charging 'two and six shillings' nearly as heralded but was the mark or the hat of a friend. In such areas the men drift from the country to the towns seeking employment; the women follow also, often to

¹ Based on an address given to the S.M.D. 1-6th International Course, September 14-October 1950.

find that there is little else but protesting for them to do. In the East, it steps forward (1) as development, the girls are banded together as brothels, the owner and others into the house the owner, including the chamber attendants, pumps and pressure, are dependent on the prostitutes for their living. Such is the position at least. The Eastern and French American parts. The "rings" of numbers are well known. In England there are no less than 4,000 brothels.

As might be expected, in the prostitutes of the English venereal diseases are not only syphilis and gonorrhea, but diphtheria and lymphogranuloma venereum as well. At times when the expectation of life is short that of the prostitute is shorter but it is infectious, not syphilis which usually kills them.

Prostitution and alcoholism go hand in hand and, in many, of the more of brothels are under the influence of drink at the time. Disturbances of the peace are likely. The next phase is coercion, therefore is the segregation of the brothels in certain areas where they can be kept under police surveillance. In London in 1911 the street was harassed and the police drafted off corners for houses, game, etc.

At this stage the State usually steps in to take not only control but also some of the money. In the middle of the nineteenth century the profits from the public houses at London, which had been established by Royal Charter, were handed over to the hospitals on the condition that the licensed medical women, "The licensed brothels of Northwick London were famous up until the time of Henry VIII.

As the brothels became licensed some sort of medical control over the women came to be exercised. Such a pattern may be seen today in a number of Middle Eastern countries who have been under French influence. Here the brothels are less useful are grouped into classes to suit different social strata and prices, and as there is medical examination of the women (taken place regularly). This system was only tried once in England under the 1864 Contagious Disease Prevention Act which ordered that prostitutes resident in the garrison towns of Portsmouth, Plymouth, Cork, and Liverpool (most of which are ports) were required to attend for examination. If they were found suffering from venereal disease they could be detained in hospital for a period not exceeding three months. The act seemed much opportune and was expected in 1865 to be repealed three years later. It did not succeed in reducing the venereal disease rates in the British Armed Forces.

Regulation and medical examination of prostitutes has failed in the past because any girl found infected had to be admitted to hospital for long periods under conditions which were often comparable with prison. Thus many would resort to subterfuge in order to obtain a false bill of health and return.

Doctors who would give certificates for permanent control voluntarily on the pay roll of prostitution. The disadvantages of being registered as a prostitute are apparent and where prostitutes are unregulated the bulk of prostitution becomes concealed while a small number of known prostitutes,

usually the least sharp-witted receive the concentrated attention of the authorities with little effect on the venereal disease problem as a whole.

The registered public women at a licensed hotel can earn but a fraction of what they can earning on their own. As a result, in countries where such regulation exists, the number of the number of unofficial prostitutes is many times the number on the official register. Such regulation, therefore, brings little material advantage.

Thus the unofficial prostitute emerges leading to the street or on her. Along a parallel line runs the dancing partner of the flak who is under contract to the place which employs her, but who gets her would be content to buy her out for the evening after which she can make her own arrangements. These girls are in reality prostitutes but with their more stilted place of engagement they can often afford to be slightly more select in the choice of their lovers. This type of girl can be found in night, all parts and cities. At the top end of the scale there are night club hostesses.

From time to time efforts are made by unscrupulous persons to group the girls together and organize prostitutes as a market. Indeed, they persuade the girls to cooperate by offering them imposing accommodations and new clothes to attract the customers. These prostitutes may come to form an aspect of gang warfare, and as America has been told the "new racket." Most European countries have the trouble to a greater or lesser degree from time to time before the congresses are sent to jail.

Such events when they come to light are usually followed by stronger penalties being imposed on women convicted for seducing and by a police 'dare' against vice. These do not last however and the hard core of prostitution remains. Even when it is apparently stamped out it is in reality underground. Thus in Germany, where it is claimed that prostitution is responsible for only a small fraction of her mortal sicknesses, the frequency of sicknesses with prostitutes per million total population is about one thousand per year.

Various means of sexual hygiene may have been suggested and it is apparent that sexual intercourse with the chosen nearest price to marriage is wide spread. Intolerance not for direct financial gain is generally, allowed by, more women elsewhere are permanent houses is conscripted. Others will allow a life of marriage is contemplated but if the friendship is black, to continue. These groups are so common from the venereal disease point of view. It is the permanent girl the prostitute who will concern with all and mostly at short as an active wife is the greatest problem of all.

The pattern which has been outlined has taken hundreds of years to evolve and spread in different countries today is in different stages of development. In the underdeveloped countries there is usually widespread prostitution, in these more developed the prostitution is organized. In what sense may one wish to be the more developed countries prostitution is no longer a significant factor in the social life the good time girl having replaced the prostitute.

THE HASTINGS-VINCENT MODEL

The Hastings-Vincent Demonstration Group have published an excellent report on the clinical aspects of venereal disease in women, which brings out well the reasons why many women associate with prostitutes.

It belongs to us to consider for a moment the factors which lead to venereal disease and note how the circumstances of the life of a woman reflect and intensify the stability of the factors of onset.

The ideal of abstinence before marriage and fidelity afterwards is not planned by us, no problem of venereal disease. The considerable mechanism which is required to achieve this is illustrated in Table I.

TABLE I—THE CASE

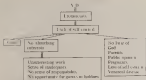


This idea, however, is not completely fulfilled and according to the manner by which the husband's career depends on whether venereal disease is likely to result (Table II).

TABLE II—THE CASE IN WOMEN



TABLE III — POSSIBLE CASES



In the consideration of reasons it will be appreciated how the inhibiting influence is maintained.

The loss of self has been a subject for the interest of the Church. Fear of parents and public opinion, and also fear of punishment, will not prevent someone in a foreign port. There is no loss of self-control if it has been done before. On the other hand, self-control in a young person might seriously be increased by the constant of the habits of his older associates if he has not. The loss of control of the mind has been caused by the custom and people in the past, and especially by making efforts and equal treatment of others.

On the other hand in many ports where there are no opportunities for growth and abilities, the woman represents a state of mind (endowments) as a stranger in a foreign land. Neither one nor the other has any favorable opportunity for marriage and a settled social life abroad. The woman should resort to the loss and should in the long run, in the loss of punishment which results beyond with an ever looking finger.

There are no Doubt with Various as Four or Five

There are three possibilities:

- (a) Endowment of the form
- (b) Keeping the other away from the form
- (c) Protecting him against the effects of exposure

Explanation of the Form

The just veterinarian should not confuse the cause of the infection which he treats. First to know your enemy is an essential principle and it is right that he should acquire a knowledge of the form, spots of his port.

From this point the custom of the machine must endeavor to bring the patient's attention to the cause. As confidence is established the task will tend to become easier. Any attempt to weaken the form, however, will

likely to feel a finger in the beam as supplying the demand. The best results are likely to come from attempts to keep the water supply from the pump.

KEEPING THE WATER SUPPLY FROM THE PUMP.

If the soldier can be made comfortable and able to enjoy his leisure by indulging in balliards and other games in a club like those kept up of a volunteer team he may be pre-occupied against the working of his nerves at home and hospital. It is interesting that the volunteer divisions in the British Army at home in the last century were not suppressed by the Continental Dictators just but rapidly, still when the social conditions were improved in the peninsula and the soldiers had opportunities for healthy recreation as an alternative to the war games and hospital. In the words of Oliver: "Certainly it is better to be fit and to enjoy than lame but if the former is not feasible there are other things than those of home upon which a young man may light fire."

The soldier has other things ready to hand but the soldier has not and they are difficult for him to find during the relatively few days he is at home. The finding of them is the mission of the welfare worker. It is not enough that he should play football or take part in a discussion for if he does not enjoy it he will escape along the old road as soon as he is able. He must be encouraged to do things he enjoys. He must not be allowed to be idle the whole of the number of leisure.

Thus the provision of good hotels for leisure is essential. In their place it may be possible to make free communication with the most useful parts of the home port that make more difficult. There is much scope for welfare amongst women, especially in making them feel at home when in port.

Policies which ensure that the soldier's money can be safely banked will reduce what is available for wild spend.

PREVENTING THE WATER SUPPLY FROM THE EFFECTS OF RADIATION.

The soldier is no different from the civilian and a number of reasons with all their apparatus and contrast required disease. Even if the welfare function is perfect there will be some soldiers who are habitually promiscuous. The problem is not solved by the psychoanalysis of the group and by the verdict that they are psychologically immature. It is for these persons that prophylactic measures are particularly designed. There is always the fear that in advancing prophylaxis those who are not already promiscuous might be encouraged to become so and that the method might in the long run defeat its own ends by encouraging promiscuity. There are three methods of prophylaxis: (a) Mechanical (b) Chemical and (c) Vaccinal.

Mechanical Prophylaxis

The condom often gives good protection provided that it is applied in time personally by the user. Unfortunately as a result of alcohol it is frequently used ineptly, or not at all. The general cause of condoms to under or not approved in First Britain 1917 is felt that they might have a hole in the

poison and encourage a man to become poison-free. However, they are made available to those who ask for them.

CURRENT PREVENTION

This is achieved by the application of 75 per cent. sodium acetate to prevent syphilis in which 45 per cent. of a sulphacetate is added to prevent soft sores. The British prophylactic treatment contains 50 per cent. of mercurous chloride and 15 per cent. of sulphathiazole in a suitable base in a tube containing 40 grams.

The man is first instructed to pass water and then to wash his penis and adjacent parts thoroughly with the small piece of cloth provided. One quarter of the contents of the tube is then squeezed onto the urinary meatus and the rest of the treatment is rubbed into the skin of the penis, penile adjacent chloasma and thighs for three minutes after which the man is instructed not to pass water for two hours. British merchant ships carry these tubes at the rate of 50 for the first 50 men and then 75 for each subsequent 500 men.

It is doubtful whether it is feasible or desirable to establish prophylactic stations in the ports in sufficient quantity to be of any use and to justify their expense. Prophylactic treatment is most conveniently carried out on return to the ship. Unfortunately alcohol frequently prevents this from being done properly.

SEVERE PSYCHIASIS. Shocking treatment

Convulsions can be produced by the means of paraffin tablets in doses of 15000 units given orally, or others to the ship. They have been widely tried in the American Navy, and for this reason are popular with American sailors.

Disadvantages are that in this dose syphilis and other venereal diseases are not necessarily prevented, and that there may be a risk of medical syphilis and of the encouragement of future possible over-dose symptoms and of possible convulsions in the patient. While it can be argued that three risks are not high it cannot be claimed that the method is costly. As great a dose of paraffin has to be given to many times the number of persons who would have to receive it had the preparations been allowed to decay itself. It has also been objected to on moral grounds.

Given by injection the results of 'shocking treatment' are more sure but the more objectionable points and we are on controversial ground. Systemic prophylaxis is not recommended in British ships unless the appropriate permission is first obtained. Shocking treatment by injection has a place in the management of venereal diseases but not in a routine but under selected circumstances e.g. a venereal exposed returning to his wife after a considerable absence at a time of very high prevalence.

The chief standing block in these cases is the possibility of reaching an inhibiting syphilitic infection and therefore in the selection of the dose of paraffin to be given and the follow up to be followed. It is possible that the new benzathine paraffins will give 100 per cent. of successful results in

patients, especially with the very seriously ill. This can be interpreted as well as safely to imply, the same, that, as yet, no given prophylactic measure is following the preparatory stage and the question of follow-up would be of still importance.

Suffice it for the moment to say that the use of the random and properly timed pocket in British measles is approved for those that want them and that in general statutory prophylaxis (short-term treatment) is not. It remains to be seen in the future if and when these views will change.

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DISCUSSION

The patient never spoke again, following the onset of anastomotic rupt. Unconsciousness was rapid, profound and uncorrected.

With fasting circulation the edema resolved a little. He was able to swallow until almost the end, when the reflex disappeared.

Early respiration was hampered with relief of intracranial pressure by the head posture, but later on this made no difference to the cerebral irritability and there was a constant restless throwing of the head from side to side. The patient adopted no particular body posture.

The general course of the illness was fulminating, with early death, and the eventual fatal outcome was inevitable after the spread of thrombosis to both sides.

Surgical opinion was taken at the onset in the hope that some form of radical interference was possible but in vain.

The variation in C.F.P. aetiology is noticeable.

W.B.C. rose from 400-1,000 and then cleared slowly to 440 before death, with differential count variation. The actual anastomosis had largely cleared.

The entire course of this illness presents a perfect clinical picture of the disease from the appearance of anast. signs with its circumstantial even extensive findings, the subjective and thrombotic spread into the cranial cavity with the external signs of massive focal infection, and final sudden failure.

Acknowledgment is made to the Medical Officer in-Charge, Royal Naval Hospital, Plymouth, for permission to publish this case report.

TWO UNUSUAL MANIFESTATIONS OF ANXIETY

27

Sergeant Commander G. C. WALLIS, R.N.

Dinner and Pre-dinner as Latent Symptoms

A Singapore aged 33 was admitted to hospital on 15th March. Died with a fairly long history of digestive bloodst. crises, fasting bowels, anorexia, anorexia and vomiting.

On admission no significant physical signs were found, other than a slightly hurried, low, or mild tachycardia. His original symptoms continued with food, but on the 20th he complained of increased frequency of micturition (12-15-14-15 times to polydipsia, the urine and output of fluids both being on the order of 8 to 9 pints daily).

Uremia revealed no abnormality except a slightly reduced specific gravity (1.015) and an appearance of some (about 100-150 mg. per 100 cc.) contained in urine. The fasting blood sugar was 100 mg. per 100 cc. W.B.C. and total X-ray (with special views of the ribs twice) showed no pathology.

In view of the persistence of haemorrhagic stools and output without any demonstrable physical finds he was reviewed from the psychiatric aspect. He was rather tense and

were collected, as I saw [him] in bed one evening, sleep and breathing normal. He said he had been bed-ridden for a few days on his head.

He described my visit and the old background, his escape, as I have described, with an emphasis on my mother and a chronic overlap during the years, from those years. He stated that he spent 1940, he attempted suicide by jumping because his family threatened to return him to his mother. In the few months prior to his admission to a clinic, he had been bed-ridden nearly every day and the head indicated that the very thought, of writing, another man.

He was evidently ill, and as the last few days in his young life, a relationship was possible for him, as a result of his family, which his mother was being.

The next day, I found that he three well persons, was able to write. With addition and apparently understanding, this indicated that he was in a position where he could be taken to the hospital.

Summary of the History

A woman, who, I had been visiting, aged 47, was referred to me as a patient for a problem of the left hand. In the left hand, the left side of the left side, I had been visiting, aged 47, was referred to me as a patient for a problem of the left hand. In the left hand, the left side of the left side, I had been visiting, aged 47, was referred to me as a patient for a problem of the left hand.



The patient, who had been visiting, aged 47, was referred to me as a patient for a problem of the left hand. In the left hand, the left side of the left side, I had been visiting, aged 47, was referred to me as a patient for a problem of the left hand. In the left hand, the left side of the left side, I had been visiting, aged 47, was referred to me as a patient for a problem of the left hand.

The patient, who had been visiting, aged 47, was referred to me as a patient for a problem of the left hand. In the left hand, the left side of the left side, I had been visiting, aged 47, was referred to me as a patient for a problem of the left hand. In the left hand, the left side of the left side, I had been visiting, aged 47, was referred to me as a patient for a problem of the left hand.

PRESENTATION OF THE GILBERT BLANE MEDAL 1964



This black photograph was taken in the new Grand Chamber of the second Royal College of Surgeons on the 19th July, on the occasion of the presentation of the Gilbert Blane Medal to Surgeon-Commander F. L. S. Coulter, D.S.O., M.B.E., L.R.C.P. (Represent of Law), by the Medical Director-General of the Navy, Sir Alexander Inglis, K.C.B., A.R.C.S., F.R.C.P., as the presenter of the President, Sir Cecil Walsley, Bart., A.R.C.S., F.R.C.P., and the Council of the Royal College of Surgeons.

The occasion was unique in that each of the two new Medals was presented and the Walsley Medal and Lady Gule Medal were presented to recipients from the Army and R.A.F. For the first time and at the same time as the Blane Medal for the Navy.

This was the last occasion on which Sir Cecil Walsley, appeared in concert with the honours as he had now ceased to be President.

The photograph also includes Professor Lambert Rogers, Secretary of the Council, carrying his staff of office as Vice-President of the College.

Reviews

LEARNING IN INTELIGENTS. By H. G. J. Collier, D.A., Ph.D. M.S. Biol. Chul. Pharmacologist. Allen & Unwin, Ltd. With foreword by Sir Alexander Fleming. 1954. Pp. viii + 344 with 48 illustrations and 14 tables. London. Clarendon & Rod Ltd. Printed in U.K.

This small volume is one of the Frontiers of Science series designed to fill the gap in available publications between the very elementary exposures and the specialist textbooks. Dr Collier has written a most readable and interesting book dealing with the subliminal and subnormal in particular but including the characteristics of tabernacles, hypnosis, the midwife and other tropical diseases. The text is clear and the bibliography at the end of each chapter well chosen.

This is a book that any doctor, physician or surgeon could read with benefit. It traces the development of chemotherapy as described remarkably well and some should read the chapter on drug resistance. The only complaint could be that the book is addressed to a group which would find the chosen dated in part but there is no value in the doctor.

MEANS TOGETHER TO UPTAKE OF JOURNAL. Edited by W. F. Floyd and A. T. Wilford. 1954. Pp. viii + 332. Illustrations 12. London. H. K. Lewis & Co. Ltd. Price 6s. 6d.

This book is the second volume of the Proceedings of the Psychometric Research Society, and the book, as well as the others are to be considered. It has become increasingly obvious particularly over the last twenty years that the performance of machines and mechanical devices is coming to challenge the power of the operator to make the latter possible, not of these possibilities.

Automatic physiologists and psychologists have therefore accepted with the design and production role to produce useful results and with an operator is becoming more and more important particularly in the domain of research. The Navy's United States is one example of the results of such collaboration.

To those who wish to learn more of this book's subject, the book is thoroughly recommended.

THE DEVELOPMENT OF THE EYE AND ORBIT. By Eugene Smith M.B., B.S. Lond. F.R.C.S. (Eng. Ophthalmic Surgeon. Royal Northern Hospital, Surgeon, Moorfields, Westminster and Central Eye Hospital, Northampton. 1954. Pp. viii + 455. Illustrations 48. 48 in colour. London. H. K. Lewis & Co. Ltd. Price 65s. 6d.

It is eleven years since the first edition of this work appeared, in a text book which presents an interesting and readable book, a description of the development, form and detailed structure of the tissues of the eye and its adnexa. The book itself, requires introduction. It is recommended to all who are interested in the subject.

The fourth edition adheres largely to the text of its predecessor. Important sections have been revised, however, notably those describing the history of the eye of children. Chapter 10, the embryonic and fetal eye and its development and the development of the vitreous.

References to recent literature have been added to chapters on the relevant parts. Over thirty new illustrations have been included and photographs in many places replace the drawings of former editions. Many of the new illustrations are in colour.

It is worth saying again that the author studied the author, who was widely known for his great interest in his subject, it should be known occurred shortly before publication of this edition.

News of the Service

OBITUARY

Surgeon Lieutenant J. M. M. STANTON, R.N. (1881) died on the 20 June 1964. Born on the 20th August 1881, he qualified in 1902 and entered the R.N. Medical Service as a Surgeon on the H.M.S. *Narcissus* in 1905. He was promoted to Surgeon Lieutenant in 1921, Surgeon Commander in 1929, and was placed on the Retired List (with request) in November 1934.

Surgeon Captain J. E. VINTHROP, R.N. (1811) died on the 2nd June 1964. Born on the 16th June 1811, he qualified in 1830 and entered the R.N. Medical Service as a Surgeon on 1st April, 1834. He was promoted to Staff Surgeon in 1835, Surgeon Commander in 1845, and was placed on the Retired List again in 1855 with the rank of Surgeon Captain. He was employed as Naval Consulting Medical Officer, Hongkong, from October 1855 until October 1860.

During World War I Surgeon Captain Alderson served as H.M. Ship, *Gloucester*, *John* and *John*.

Surgeon Captain W. H. HARRIS, D.S.O., R.N. (1861) died on the 26th June 1964. Born on the 26th May, 1860, he qualified in 1880 and entered the R.N. Medical Service as a Surgeon Lieutenant in 1882. He was promoted to Surgeon Lieutenant Commander in 1895, Surgeon Commander in 1903, and was placed on the Retired List (with request) with the rank of Surgeon Captain in 1920.

During World War I Surgeon Captain Harris served as H.M. Ship, *London*, *Compton* and *R.N. V. S. Quaker*. During World War II he was employed by the Home Office as Medical Inspector in the Canadian Army Gas Station, England. He died of cancer, and was awarded the D.F.P. on the Birthday Honours of 1947.

Surgeon Captain C. H. HAWES, R.N. (1812) died on the 16th July 1964. Born on the 18th April 1812, he qualified in 1830 and entered the R.N. Medical Service as a Surgeon in 1832. He was promoted to Surgeon Lieutenant Commander in 1841, Surgeon Commander in 1847, and was placed on the Retired List (with the rank of Surgeon Captain in 1860). He was employed as Naval Consulting Medical Officer, Hongkong, from February 1860 until March 1864, and from January 1868 until October 1868.

During World War I Surgeon Captain Davis served as H.M. Ship, *Forward*, *John* and *Compton*.

Surgeon Commander G. J. H. WERRINGTON, R.N. (1841) died on the 10th September 1964. Born on the 10th October 1841, he qualified in 1860 and entered the R.N. Medical Service as a Temporary Surgeon Lieutenant on October 1862, transferring to the Permanent Service in 1866. He was promoted to Surgeon Lieutenant Commander in 1872, Surgeon Commander in 1878, and was placed on the Retired List (with request) in 1892.

During World War I Surgeon Commander Werrington served as H.M. Ship, *John* and *Compton*, and was awarded a Service on the outbreak of World War II during which time he served as H.M. *Endeavour*, *Portsmouth* and H.M. *Harbour* (Dorset). He retired to the Retired List in September 1945.

HIGHLY DECORIED

M.D. Surgeon Lieutenant Commander R. H. Doughton, D.D. Ch.B., M.R.C.S., L.R.C.P., R.N.

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

Abstract

For hydrogen, base 10 and 11.1. The chlorine δ HD% is 1.04 ppm. The other values are 1.0. Theoretical δ is 1.0.

The following information is provided for informational purposes only. It is not intended to be used as a substitute for professional advice. Please consult your physician or other healthcare provider for more information.

The *Journal of Interpersonal Violence* 11(4):400-411—B. B. Whipple, Jr. Page 1730-1

T. Thompson, J. L. Smith, C. Jones, D. Brown, E. White, F. Green

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1. **Introduction**

To Young Commercial Restaurant—1 R. Ross, 4 C. Martin, F. M. Marshall
P. M. Ryan

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

Weathering: Long Island, N. Y. & Niagara: Comparison to other sites: J. A. Hall

THOMAS ALEXANDER'S LOCAL NATURAL HISTORY SERVICE

Keywords: child sexual abuse; disclosure; legal system; police; social workers

[illegible]

1954

ADMIRALTY FLEET ORDERS

(This page is perforated for filing)

1763.—Dentistry Surgeons and Agents

1771.—Officers.—Medical and Dental.—Transfer to Permanent List.—Pay and Allowances

1913.—Dental Stores.—Dental X-ray Apparatus.—Cost of

2012.—Medical, Dental and Hospital Consultants

2063.—Medical.—Prescriptions.—Storage and R.M. Other Records.—Complaints and Special Services.—Examination on Entry

2074.—Medical.—X-ray of Chest

2074.—Courses.—Officers.—Medical Officers Selection Courses in Anæsthesia

2075.—Medical.—R.A.F. Personnel Trained in R.M. Ships and R.N. Medical Establishments.—Disposal of Medical Record Forms

2080.—Surgeons and Agents

2247.—Medical and Dental and Hospital Consultants

2267.—Dental Treatments.—Examination, Facilities, Records, Returns, etc., and Index of Pages

2281.—Medical.—Drops and Pain Spraying.—Prescriptions

2287.—Surgeons and Agents

2445.—Medical.—Treatment.—Visitors to the Channel Islands

2519.—Medical.—Mobile X-ray Machine Radiograph Unit.—a dental radiograph

2542.—Medical, Dental and Hospital Consultants

2576.—Surgeons and Agents

2650.—Medical and Dental Stores.—Unserviceable Medical and Dental Stores in R.M. Ships and Fleet Establishments.—Survey and Disposal

Notice

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The Editor receives medical officers in need, in original papers on professional subjects, novel personal experiences, etc. Items of news and matters of interest to the Naval medical service will be welcomed from ships and establishments on home and foreign stations. Notices of further coverages and details are inserted free of charge by subscription.

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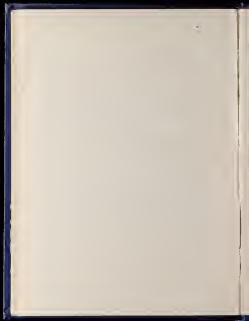
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1914.

Adams, P.	Chorea and Hysteria in Post-Menstrual Women, 1893-1929	41
Anderson, A. A.	A Case of Acute Bacterial Endocarditis of the Tricuspid Valve, Accompanied by Mitral Regurgitation Function	99
Brown, H. J.	Fatal Following Coarctation After Thoracotomy	121
✓ Bowman, A. J.	Malignant in the Tubercle Protection Series	184
Chase, C. D.	The Operative Treatment of Empyema Thoracis: A Study of One Hundred Cases	157
Cramer, J. W. L.	Classical Medical Beliefs as a Work of Shakespeare	174
Eastcott, H. H. G.	The Surgery of Tetanus for Hospital Treatment	1
Evenden, E. J.	Self-Vaginal Examination for Sexual and Instructional Purposes	111
✓ Evans, P. A.	A Survey of the Integumentary Cancer Rate in Young Men of 3 years	20
✓ Goring, G. L.	Stomach in Order Associated with Dental Care	145
✓ Hall, H. J. A.	Two Cases of Poisoning by Smoking Ink	95
✓ Latta, R. G.	Pharmacokinetics in Animal Metabolic System	145
McCauley, P. A.	Self-Vaginal Examination for Sexual and Instructional Purposes	112
McCauley, P.	The Use of Hypnotism in Surgery	4
✓ New, P. B.	A Large Primary Ectodermoma of the Heart	143
✓ Pearson, P. B.	A Large Primary Ectodermoma of the Heart	139
✓ Ross, W. L.	The Best Principles of the Treatment of Warlike Facial Injuries	115
Stanbury, M. A.	The Problem of the Child	67

